

**NORTH AMERICAN LISTINGS** including Hawaii and U.S. possessions

**\$39.95**

**IN THIS ISSUE**

**793,558 Licensed  
Radio Amateurs**

**48,727 New Licenses  
Issued Since  
the 1995 Edition**

**Over 120,000 Changes  
in Listings**

**Then and Now—  
Call Letter Changes**

**6 and 10 Meter  
Beacon Lists**

**Radio Amateur  
Prefixes  
of the World**

**Table of Call Sign  
Allocations**

**DXCC Countries List**

**Census of Amateur  
Radio Licenses  
of the World**

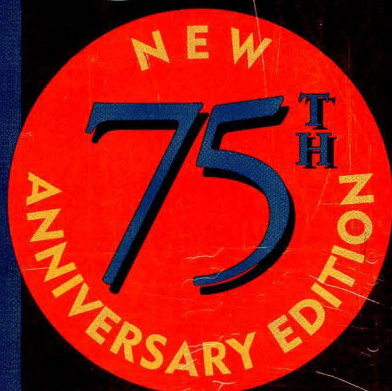
**Census of Amateur  
Radio Licenses  
of the U.S.**

**Radio Amateurs  
Operating with  
Reciprocal Licenses**

**World Wide QSL  
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**Plus Many Other  
Features**

# **RADIO AMATEUR CALL BOOK**



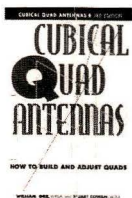
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# **1997**

**The Only Publication Listing Licensed Radio Amateurs Throughout the World Since 1920**



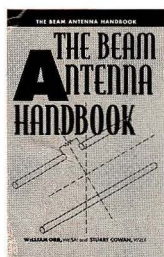
# RADIO PUBLICATIONS HANDBOOKS



## ALL ABOUT CUBICAL QUAD ANTENNAS

by William I. Orr  
W6SAI and Stuart D.  
Cowan W2LX

This well-known classic has been updated to include new Quad designs; new dimension charts for every type of Quad from 6 to 80 meters; additional gain figures; an analysis of Quad vs. Yagi; Mini and Monster Quad designs; Delta, Swiss, and Birdcage Quads; and on improved Tri-Gamma match to feed a triband Quad efficiently with one transmission line. Also covered are feed systems and tuning procedures for maximum gain and minimum SWR. Much of this data has never before been published.  
ISBN 0-8230-8703-4.  
\$13.95



## BEAM ANTENNA HANDBOOK

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W6SAI and Stuart D.  
Cowan W2LX

This popular new edition gives you the correct dimensions for 6, 10, 15, 20 and 40 meter beams; data on triband and

compact beams; the truth about beam height; SWR curves for popular beams for 6 to 40 meters; and comparisons of T-match, Gamma match, and direct feed. It describes tests to confirm if your beam is working properly, tells how to save money by building your own beam and balun, and discusses test instruments and how to use them. This book is a "must" for the serious DX'er!  
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\$13.95



## ALL ABOUT VHF AMATEUR RADIO

by William I. Orr  
W6SAI

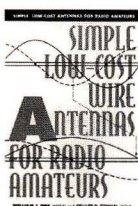
This new handbook covers VHF propagation and DX, the VHF repeater and how it works for you, VHF moonbounce communication, and amateur satellite communication. It discusses vertical and horizontal mobile antennas, tells almost everything about coaxial cables, and describes VHF beam antennas you can build yourself. It also includes information on SWR measurements, VHF interference and how to suppress it, and even the proper care of Ni-cad batteries. This is a complete handbook of VHF radio for amateurs.  
ISBN 0-8230-8705-0.  
\$13.95



## THE RADIO AMATEUR ANTENNA HANDBOOK

by William I. Orr  
W6SAI and Stuart D.  
Cowan W2LX

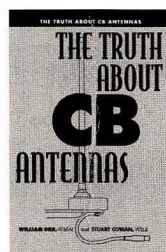
This clearly written handbook contains a wealth of information about amateur antennas, from beams to baluns, tuners, and towers. The exclusive "Truth Table" gives you the actual dB gain of 10 popular antenna types. Describes how to build multiband vertical and horizontal antennas, Quads, Delta Quads, Mini-Quads, a Monster Quad, DX "slopers," triband beams, and VHF Quagi and log periodic Yagi beams. Dimensions are given for all antennas in English and metric units. Covers radials, coaxial cable loss, "bargain" coax, baluns, SWR meters, wind loading, tower hazards, and the advantages and disadvantages of crank-up tilt-over towers.  
ISBN 0-8230-8706-9.  
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## SIMPLE, LOW-COST WIRE ANTENNAS FOR RADIO AMATEURS

by William I. Orr  
W6SAI and Stuart D.  
Cowan W2LX

Now—another great handbook joins the famous Cubical Quad and Beam Antenna Handbooks. Provides complete instructions for building tested wire antennas from 2 through 160 meters: horizontal, vertical, multiband traps, and beam antennas. Describes a 3-band Novice dipole with only one feedline; the "folded Marconi" antenna for 40, 80, or 160 meters; "invisible" antennas for difficult locations—hidden, disguised, and disappearing antennas (the Dick Tracy Special, the CIA Special). Covers antenna tuners and baluns, and gives clear explanations of radiation resistance, impedance, radials, ground systems, and lightning protection. This is a truly practical handbook.  
ISBN 0-8230-8707-7.  
\$13.95

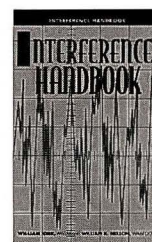


## THE TRUTH ABOUT CB ANTENNAS

by William I. Orr  
W6SAI and Stuart D.  
Cowan W2LX

Contains everything the CB'er needs to know to buy or build, install, and adjust efficient CB antennas for strong, reliable signals. A unique "Truth Table" shows the dB gain from 10 of the most popular CB antennas. The antenna is the key to clear, reliable communication but most CB antennas do not work near peak

efficiency. Now, for the first time, this handbook gives clear informative instructions on antenna adjustment, exposes false claims about inferior antennas, and helps you make your antenna work. This handbook features exclusive and complete coverage of the "Monster Quad" beam, the "King" of CB antennas.  
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\$13.95



## INTERFERENCE HANDBOOK

by William R. Nelson  
WA6FQG, edited by  
William I. Orr W6SAI

This timely book covers every radio frequency interference (RFI) problem, with solutions based on years of practical experience. Covers amateur radio, CB radio, mobile, telephone, power line, CATV, and computer problems with proven solutions. This useful handbook contains case histories and valuable tips for stereo and TV owners to cure interference.  
ISBN 0-8230-8709-3.  
\$13.95

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## ALL ABOUT VERTICAL ANTENNAS

by William I. Orr  
W6SAI and Stuart D.  
Cowan W2LX

Properly designed, built, and installed vertical antennas do a fine job in small places. This clear, well-illustrated book covers the design, construction, installation, and operation of 52 vertical antennas: efficient Marconi antennas for 80 and 160 meters, multiband verticals, vertical loops, phased arrays, and shunt-fed towers. Also described are "radio" and electrical grounds, matching systems, tuners, loading coils, and TVI, plus the precautions necessary to protect yourself, your home, and your equipment from lightning damage... and much more! It's the most practical and authoritative vertical handbook in print.  
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# RADIO AMATEURS of NORTH AMERICA

Including Hawaii and the U.S. Possessions

**VOLUME 75  
NUMBER 1  
1997**

Published 1997 by Radio Amateur Callbook, an imprint of Watson-Guptill Publications, a division of BPI Communications, Inc., 1515 Broadway, New York, NY 10036, USA.

The Callbook's Editorial and Customer Service offices are located at 1695 Oak Street, Lakewood, NJ 08701, USA. Telephone: (908) 905-2961. Office hours: M-F 9:00 to 5:00 Eastern time.

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Any errors should be called to the Company's attention immediately.

Library of Congress Catalog Card Number: 65-31161  
ISBN 0-8230-5891-3

Printed in U.S.A.

# RADIO AMATEUR CALLBOOK



## CONTENTS

Allocation of International Call Sign Series	2A
Census of Amateur Radio Licenses in the U.S.A. by classes	3A
Census of Amateur Radio Licenses Throughout the World	5A
Census of U.S. Amateurs by State and Zip Code	6A, 7A
DXCC Countries List	9A
International Postal Rates	20A
"Q" Signals	11A
QSL Bureaus	12A, 13A
QSL Managers (included in the alphabetical listings)	
Radio Amateur Prefixes—by Country (40 Zone)	16A
Radio Amateurs Prefix—by Prefix	17A
Radio Amateurs Operating with Reciprocal Licenses	14A, 15A
Radio Amateurs Operating Agreements	21A
Silent Keys (included in the alphabetical listings)	
6 Meter Beacons	18A, 19A
Standard Time Throughout the World	23A
Telegraph Codes	22A
10 Meter Beacons	24A, 25A
Then & Now Call Sign Changes (included in the alphabetical listings)	
Third Party Traffic Agreements	21A
World Maps	25A-31A
1997 Callbook Order Information	10A

## DIRECTORY

FIRST U.S. CALL AREA	I
Includes the States of Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont.	
SECOND U.S. CALL AREA	113
Includes Guam, U.S. Virgin Islands, and the States of New Jersey and New York.	
THIRD U.S. CALL AREA	284
Includes the District of Columbia and the States of Delaware, Maryland, and Pennsylvania.	
FOURTH U.S. CALL AREA	399
Includes Puerto Rico and the States of Alabama, Florida, Georgia, Kentucky, North Carolina, Tennessee, and Virginia.	
FIFTH U.S. CALL AREA	774
Includes the States of Arkansas, Louisiana, Mississippi, New Mexico, Oklahoma, and Texas.	
SIXTH U.S. CALL AREA	974
Includes the States of California and Hawaii.	
SEVENTH U.S. CALL AREA	1297
Includes the States of Alaska, Arizona, Idaho, Montana, Nevada, Oregon, Utah, Washington, and Wyoming.	
EIGHTH U.S. CALL AREA	1496
Includes American Samoa and the States of Michigan, Ohio and West Virginia.	
NINTH U.S. CALL AREA	1668
Includes the States of Illinois, Indiana, and Wisconsin.	
TENTH U.S. CALL AREA	1814
Includes the Mariana Islands and the States of Colorado, Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, and South Dakota.	
NORTH AMERICAN COUNTRIES OUTSIDE THE U.S.A.	1976

*Radio Amateur Callbook known the world over as the "Callbook"*



# TABLE OF ALLOCATION OF INTERNATIONAL CALL SIGN SERIES

As Issued by the International Telecommunications Union and Others

## Call Sign Series

AAA-ALZ	United States of America	OMA-OMZ	Slovak Republic	ZPA-ZPZ	Paraguay	9HA-9HZ	Malta
AMA-AOZ	Spain	ONA-OTZ	Belgium	ZQA-ZOZ	Great Britain & Northern Ireland	9IA-9JZ	Zambia
APA-ASZ	Pakistan	OUA-OZZ	Denmark	ZRA-ZUZ	Rep. of South Africa	9KA-9KZ	Kuwait
ATA-AWZ	India			ZVA-ZZZ	Brazil	9LA-9LZ	Sierra Leone
AXA-AXZ	Australia	PAA-PIZ	Netherlands			9MA-9MZ	Malaysia
AYA-AZZ	Argentina	PJA-PJZ	Netherlands Antilles	2AA-2ZZ	Great Britain & Northern Ireland	9NA-9NZ	Nepal
		PKA-POZ	Indonesia			9OA-9TZ	Zaire
BAA-BZZ	China	PPA-PYZ	Brazil	3AA-3AZ	Monaco	9UA-9UZ	Burundi
		PZA-PZZ	Surinam	3BA-3BZ	Mauritius	9VA-9VZ	Singapore
CAA-CEZ	Chile			3CA-3CZ	Equatorial Guinea	9WA-9WZ	Malaysia
CFA-CKZ	Canada	RAA-RZZ	Russian Federation	3DA-3DM	Swaziland	9XA-9XZ	Rwanda
CLA-CMZ	Cuba			3DN-3DZ	Fiji	9YA-9ZZ	Trinidad and Tobago
CNA-CNZ	Morocco	SAA-SMZ	Sweden	3EA-3FZ	Panama		
COA-COZ	Cuba	SNA-SRZ	Poland	3GA-3GZ	Chile	A2A-A2Z	Botswana
CPA-CPZ	Bolivia	SSA-SSM	Egypt	3HA-3UZ	China	A3A-A3Z	Tonga
CQA-CUZ	Portugal	SSN-SSZ	Sudan	3VA-3VZ	Tunisia	A4A-A4Z	Oman
CVA-CXZ	Uruguay	STA-STZ	Sudan	3WA-3WZ	Viet Nam	A5A-A5Z	Bhutan
CYA-CZZ	Canada	SUA-SUZ	Egypt	3XA-3XZ	Guinea	A6A-A6Z	United Arab Emirates
		SVA-SZZ	Greece	3YA-3YZ	Norway	A7A-A7Z	Qatar
DAA-DRZ	Germany			3ZA-3ZZ	Poland	A8A-A8Z	Liberia
DSA-DTZ	South Korea	TAA-TCZ	Turkey			A9A-A9Z	Bahrain
DUA-DZZ	Philippines	TDA-TDZ	Guatemala	4AA-4CZ	Mexico		
		TEA-TEZ	Costa Rica	4DA-4IZ	Philippines	C2A-C2Z	Nauru
EAA-EHZ	Spain	TFA-TFZ	Iceland	4JA-4KZ	Azerbaijan	C3A-C3Z	Andorra
EIA-EJZ	Ireland	TGA-TGZ	Guatemala	4LA-4LZ	Georgia	C4A-C4Z	Cyprus
EKA-EKZ	Armenia	THA-THZ	France	4MA-4MZ	Venezuela	C5A-C5Z	Gambia
ELA-ELZ	Liberia	TIA-TIZ	Costa Rica	4NA-4OZ	Yugoslavia	C6A-C6Z	Bahamas
EMA-EOZ	Ukraine	TJA-TJZ	Cameroon	4PA-4SZ	Sri Lanka	C7A-C7Z	World Meteorological Organization
EPA-EQZ	Iran	TKA-TKZ	France	4TA-4TZ	Peru	C8A-C9Z	Mozambique
ERA-ERZ	Moldova	TLA-TLZ	Central African Republic	4UA-4UZ	United Nations		
ESA-ESZ	Estonia	TMA-TMZ	France	4VA-4VZ	Haiti	D2A-D3Z	Angola
ETA-ETZ	Ethiopia	TNA-TNZ	Congo	4XA-4XZ	Israel	D4A-D4Z	Cape Verde
EUA-EWZ	Belarus	TOA-TOZ	France	4YA-4YZ	Int. Civil Aviation Organization	D5A-D5Z	Liberia
EXA-EXZ	Russian Federation	TRA-TRZ	Gabon	4ZA-4ZZ	Israel	D6A-D6Z	Comoros
EYA-EYZ	Tajikistan	TSA-TSZ	Tunisia			D7A-D9Z	South Korea
EZA-EZZ	Turkmenistan	TTA-TTZ	Chad	5AA-5AZ	Libya		
		TUA-TUZ	Ivory Coast	5BA-5BZ	Cyprus	E2A-E2Z	Thailand
FAA-FZZ	France	TVA-TXZ	France	5CA-5GZ	Morocco		
		TYA-TYZ	Benin	5HA-5IZ	Tanzania	H2A-H2Z	Cyprus
GAA-GZZ	Great Britain & Northern Ireland	TZA-TZZ	Mali	5JA-5KZ	Colombia	H3A-H3Z	Panama
				5LA-5MZ	Liberia	H4A-H4Z	Solomon Islands
HAA-HAZ	Hungary	UAA-UIZ	Russian Federation	5NA-5OZ	Nigeria	H6A-H7Z	Nicaragua
HBA-HBZ	Switzerland	UJA-UMZ	Uzbekistan	5PA-5QZ	Denmark	H8A-H9Z	Panama
HCA-HDZ	Ecuador	UNA-UOZ	Russian Federation	5RA-5SZ	Madagascar		
HEA-HEZ	Switzerland	URA-UTZ	Ukraine	5TA-5TZ	Mauritania	J2A-J2Z	Djibouti
HFA-HFZ	Poland	UUA-UZZ	Ukraine	5UA-5UZ	Niger	J3A-J3Z	Grenada
HGA-HGZ	Hungary			5VA-5VZ	Togo	J4A-J4Z	Greece
HHA-HHZ	Haiti	VAA-VGZ	Canada	5WA-5WZ	Western Samoa	J5A-J5Z	Guinea-Bissau
HIA-HIZ	Dominican Republic	VHA-VNZ	Australia	5XA-5XZ	Uganda	J6A-J6Z	Saint Lucia
HJA-HKZ	Colombia	VOA-VOZ	Canada	5YA-5ZZ	Kenya	J7A-J7Z	Dominica
HLA-HLZ	South Korea	VPA-VSZ	Great Britain & Northern Ireland			J8A-J8Z	St. Vincent and the Grenadines
HMA-HMZ	North Korea	VTA-VWZ	India	6AA-6BZ	Egypt		
HNA-HNZ	Iraq	VXA-VYZ	Canada	6CA-6CZ	Syria	L2A-L9Z	Argentina
HOA-HPZ	Panama	VZA-VZZ	Australia	6DA-6JZ	Mexico		
HQA-HRZ	Honduras	WAA-WZZ	United States of America	6KA-6NZ	South Korea	P2A-P2Z	Papua New Guinea
HSA-HSZ	Thailand	XAA-XIZ	Mexico	6OA-6OZ	Somalia	P3A-P3Z	Cyprus
HTA-HTZ	Nicaragua	XJA-XOZ	Canada	6PA-6SZ	Pakistan	P4A-P4Z	Aruba
HUA-HUZ	El Salvador	XQA-XRZ	Denmark	6TA-6UZ	Sudan	P5A-P9Z	North Korea
HVA-HVZ	Vatican City	XSA-XSZ	China	6VA-6WZ	Senegal		
HWA-HYZ	France	XTA-XTZ	Burkina-Faso	6XA-6XZ	Madagascar	S2A-S3Z	Bangladesh
HZA-HZZ	Saudi Arabia	XUA-XUZ	Cambodia	6YA-6YZ	Jamaica	S5A-S5Z	Slovenia
		XVA-XVZ	Viet Nam	6ZA-6ZZ	Liberia	S6A-S6Z	Singapore
IAA-IZZ	Italy	XWA-XWZ	Laos			S7A-S7Z	Seychelles
JAA-JSZ	Japan	XXA-XXZ	Portugal	7AA-7IZ	Indonesia	S9A-S9Z	Sao Tome and Principe
JTA-JVZ	Mongolia	XYA-XZZ	Myanmar	7JA-7NZ	Japan		
JWA-JXZ	Norway			7OA-7OZ	Yemen	T2A-T2Z	Tuvalu
JYA-JYZ	Jordan	YAA-YAZ	Afghanistan	7PA-7PZ	Lesotho	T3A-T3Z	Kiribati
JZA-JZZ	Indonesia	YBA-YHZ	Indonesia	7QA-7QZ	Malawi	T4A-T4Z	Cuba
		YIA-YIZ	Iraq	7RA-7RZ	Algeria	T5A-T5Z	Somalia
KAA-KZZ	United States of America	YJA-YJZ	Vanuatu	7SA-7SZ	Sweden	T6A-T6Z	Afghanistan
		YKA-YKZ	Syria	7TA-7YZ	Algeria	T7A-T7Z	San Marino
LAA-LNZ	Norway	YLA-YLZ	Latvia	7ZA-7ZZ	Saudi Arabia	T9A-T9Z	Bosnia and Herzegovina
LOA-LWZ	Argentina	YMA-YMZ	Turkey				
LXA-LXZ	Luxembourg	YNA-YNZ	Nicaragua	8AA-8IZ	Indonesia	V2A-V2Z	Antigua and Barbuda
LYA-LYZ	Lithuania	YOA-YRZ	Romania	8JA-8NZ	Japan	V3A-V3Z	Belize
LZA-LZZ	Bulgaria	YSA-YSZ	El Salvador	8OA-8OZ	Botswana	V4A-V4Z	St. Kitts and Nevis
MAA-MZZ	Great Britain & Northern Ireland	YTA-YUZ	Yugoslavia	8PA-8PZ	Barbados	V5A-V5Z	Namibia
		YVA-YYZ	Venezuela	8QA-8QZ	Maldives	V6A-V6Z	Micronesia
NAA-NZZ	United States of America	YZA-YZZ	Yugoslavia	8RA-8RZ	Guyana	V7A-V7Z	Marshall Islands
		ZAA-ZAZ	Albania	8SA-8SZ	Sweden	V8A-V8Z	Brunei
OAA-OCZ	Peru	ZBA-ZJZ	Great Britain & Northern Ireland	8TA-8YZ	India		
ODA-ODZ	Lebanon	ZKA-ZMZ	New Zealand	8ZA-8ZZ	Saudi Arabia	Y2A-Y9Z	Germany
OEa-OEZ	Austria	ZNA-ZOZ	Great Britain & Northern Ireland				
OFA-OJZ	Finland			9AA-9AZ	Croatia	Z2A-Z2Z	Zimbabwe
OKA-OLZ	Czech Republic			9BA-9DZ	Iran	Z3A-Z3Z	Macedonia
				9EA-9FZ	Ethiopia		
				9GA-9GZ	Ghana		



# CENSUS OF AMATEUR RADIO LICENSES\* in the U.S.A.

by classes, within states and call areas

Call Area	State	Novice	Technician	Plus	General	Advanced	Extra	Club	Military	State Totals	Percent of Licenses
1	CT	1555	2449	862	1854	1482	1105	94	2	9403	1.31
1	MA	2126	4415	1525	3213	2606	2047	125	3	16060	2.24
1	ME	518	1268	467	1006	687	499	30	1	4476	.63
1	NH	532	1520	535	939	723	674	30	1	4954	.69
1	RI	381	728	310	524	362	347	31	1	2684	.38
1	VT	217	747	219	429	325	258	24		2219	.31
1	*TOTALS	5329	11127	3918	7965	6185	4930	334	8	39796	5.56
2	GU	164	240	53	63	47	52	2		621	.09
2	NJ	2451	4807	1834	3376	3042	2139	197	6	17852	2.50
2	NY	6087	10820	3618	6579	5532	3815	260	4	36715	5.13
2	VI	43	110	24	85	53	49	7		371	.05
2	AE	101	161	60	98	72	40			532	.07
2	*TOTALS	8846	16138	5589	10201	8746	6095	473	12	56091	7.84
3	DC	67	99	42	125	94	76	3	4	510	.07
3	DE	187	437	166	290	226	196	10	1	1513	.21
3	MD	1367	3452	1234	2216	2221	1495	85	7	12077	1.69
3	PA	3235	7332	2705	5078	4391	3076	198	12	26027	3.64
3	*TOTALS	4856	11320	4147	7709	6932	4843	296	24	40127	5.61
4	AL	943	4105	1099	1747	1651	1157	56	2	10760	1.50
4	FL	6323	11527	4072	9169	7612	4356	174	4	43237	6.04
4	GA	1387	5020	1474	2594	2534	1583	85	3	14680	2.05
4	KY	1104	3309	937	1456	1199	914	54	1	8974	1.25
4	NC	1885	6125	1918	3097	2887	1910	89	2	17913	2.50
4	PR	4121	2103	1012	803	586	288	18	1	8932	1.25
4	SC	632	2129	697	1347	1076	721	80	2	6684	.93
4	TN	1357	4990	1570	2299	2292	1529	67	3	14107	1.97
4	VA	1880	5100	1900	3045	3022	2119	79	5	17150	2.40
4	AA	25	47	12	28	9	8		1	130	.02
4	*TOTALS	19657	44455	14691	25585	22868	14585	702	24	142567	19.93
5	AR	576	2556	703	1062	1044	761	38	1	6741	.94
5	LA	830	2418	708	1375	1320	839	43	3	7536	1.05
5	MS	506	1669	440	847	798	499	23	2	4784	.67
5	NM	329	1914	470	880	881	595	29		5098	.71
5	OK	1027	3621	854	1461	1480	949	50	1	9443	1.32
5	TX	4037	14479	4044	7632	7457	4789	227	8	42673	5.96
5	*TOTALS	7305	26657	7219	13257	12980	8432	410	15	76275	10.66
6	CA	15734	41781	10528	16107	15264	8757	764	16	108951	15.23
6	HI	665	1097	279	560	490	320	46	3	3460	.48
6	AP	107	172	53	73	44	40	2	7	498	.07
6	FM	1							1		.00
6	MP	8	76	9	19	20	36	3		171	.02
6	PW					1			1	2	.00
6	TT	1				1	2			4	.00
6	*TOTALS	16516	43126	10869	16759	15820	9155	815	27	113087	15.80
7	AK	408	1059	247	627	499	327	13	6	3186	.45
7	AZ	1162	5639	1572	2643	2514	1547	56	2	15135	2.12
7	ID	374	1435	401	716	590	335	20		3871	.54
7	MT	337	963	301	580	466	304	23		2974	.42
7	NV	346	1484	450	843	679	414	25		4241	.59
7	OR	1427	4077	1360	2696	2097	1262	74	1	12994	1.82
7	UT	705	4022	774	772	816	503	22	2	7616	1.06
7	WA	2851	8528	2564	4433	3670	2443	106	4	24599	3.44
7	WY	199	554	180	291	233	186	11		1654	.23
7	*TOTALS	7809	27761	7849	13601	11564	7321	350	15	76270	10.66
8	AS	11	51	10	9	5	10	4		100	.01
8	MI	2368	7095	2175	4212	3521	2250	139	1	21761	3.04
8	OH	3696	11070	3708	5458	4811	3163	221	1	32128	4.49
8	WV	746	2567	658	925	729	596	31	4	6256	.87
8	*TOTALS	6821	20783	6551	10604	9066	6019	395	6	60245	8.42
9	IL	3270	7564	2441	4655	4078	2621	172	13	24814	3.47
9	IN	1887	5347	1702	2720	2325	1518	124		15623	2.18
9	WI	1171	3414	985	2151	1826	1189	64		10800	1.51
9	*TOTALS	6328	16325	5128	9526	8229	5328	360	13	51237	7.16
10	CO	1222	3844	1225	2124	2067	1256	54		11792	1.65
10	IA	989	1894	606	1457	1369	740	50	2	7107	.99
10	KS	921	2439	799	1530	1139	740	67	1	7636	1.07
10	MN	1188	3278	1088	2271	1953	1181	82	1	11042	1.54
10	MO	1413	4050	1269	2581	2211	1428	83	1	13036	1.82
10	ND	227	550	156	367	242	166	12	1	1721	.24
10	NE	448	1110	412	949	760	394	36		4109	.57
10	SD	165	441	135	352	296	173	15		1577	.22
10	*TOTALS	6573	17606	5690	11631	10037	6078	399	6	58020	8.11
*FINAL		90173	235640	71681	126978	113240	73064	4534	152	715462	100.00
Percent of total licenses		12.60	32.94	10.02	17.75	15.83	10.21	.63	.02		



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Motorola, ICOM, Maxon, Yaesu,  
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Aviation ICOM: A22, A230



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Kantronics, Kenwood, Larsen, Maxon, MFJ, Mirage, Motorola, Nye,  
Palomar, RF Products, Shure, Standard, TUBES & Tube Carbons,  
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2. Call (908) 905-3074.
3. After connection, press Enter twice.
4. The sign-on screen will say "Type ON."  
Key in the letter "O" and "N" and then  
press Enter. (Do not key in the quotation  
marks.)
5. Follow the instructions on the introduc-  
tory screen. To make this service  
available to all amateurs, you will be  
allowed a maximum of 3 sign "look ups"  
per telephone call.



# CENSUS OF AMATEUR RADIO LICENSES OF THE WORLD\*

Prefix	Country	Number of Radio Amateur Licenses Listed	Prefix	Country	Number of Radio Amateur Licenses Listed	Prefix	Country	Number of Radio Amateur Licenses Listed
AP	PAKISTAN	134	J5	GUINEA BISSAU	8	XV	VIETNAM	5
AY-AZ	ARGENTINA	26	J6	ST. LUCIA, WINDWARD ISLANDS	182	XW	LAOS	5
A2	BOTSWANA	47	J7	DOMINICA, WINDWARD ISLANDS	114	XX	MACAO	50
A3	TONGA	100	J8	ST. VINCENT, WINDWARD ISLANDS	61	XY,XZ	MYANMAR	4
A4	OMAN	100	LA-LN	NORWAY	6218	YB-YH	INDONESIA	10918
A5	BHUTAN	5	LO-LW	ARGENTINA	34568	YI	IRAQ	45
A6	UNITED ARAB	8	LX	LUXEMBOURG	515	YJ	VANUATU	31
A7	QATAR	52	LY	LITHUANIA	1215	YK	SYRIA	14
A9	BAHRAIN	45	LZ	BULGARIA	1775	YL	LATVIA	536
BA-BZ	CHINA	149	OA-OC	PERU	2167	YN	NICARAGUA	208
BV	TAIWAN	839	OD	LEBANON	247	YO-YR	ROMANIA	3808
CA-CE	CHILE	7117	OE	AUSTRIA	7182	YS	EL SALVADOR	417
CM, CO	CUBA	1521	OF-OI	FINLAND	5069	YT, YU, YZ	YUGOSLAVIA	3462
CN	MOROCCO	331	OH<	ALAND IS., FINLAND	52	YV-YY	VENEZUELA	20775
CP	BOLIVIA	1499	OK-OL	CZECH REPUBLIC	7062	YV<	AVES IS., VENEZUELA	4
CQ-CU	PORTUGAL	3127	OM	SLOVAK REPUBLIC	1408	ZA	ALBANIA	52
CS3, CT3	MADEIRA IS., PORTUGAL	191	ON-OT	BELGIUM	5298	ZB2	GIBRALTAR	55
CU	AZORES IS., PORTUGAL	423	OX	GREENLAND	104	ZC4	CYPRUS	25
CV-CX	URUGUAY	3550	OY	FAROE IS.	116	ZD7	ST. HELENA IS.	20
C2	NAURU	12	OZ	DENMARK	9786	ZD8	ASCENSION IS.	50
C3	ANDORRA	193	PA-PI	NETHERLANDS	14990	ZD9	TRISTAN DA CUNHA ISLAND	13
C5	THE GAMBIA	21	PJ	CURACAO, NETHERLANDS ANTILLES	61	ZD9	GOUGH ISLAND	1
C6	BAHAMA IS.	72	PJ	BOINARE, NETHERLANDS ANTILLES	2	ZF	CAYMAN IS.	160
C8, C9	MOZAMBIQUE	58	PJ	SINT EUSTATIUS, NETHERLANDS ANTILLES 14		ZK1	COOK ISLANDS, NEW ZEALAND	42
DA-DP	FEDERAL REPUBLIC OF GERMANY	78058	PJ	SABA, NETHERLANDS ANTILLES	1	ZK2	NIUE ISLAND, NEW ZEALAND	18
DU-DZ	PHILIPPINES	4227	PJ	SINT MAARTEN, NETHERLANDS ANTILLES 28		ZK3	TOKELAU ISLAND, NEW ZEALAND	4
D2, D3	ANGOLA	16	PP-PY	BRAZIL	27674	ZL,ZM	NEW ZEALAND	6450
D4	CAPE VERDE	4	PP<-PY<	FERNANDO DE NORONHA IS., BRAZIL	36	ZP	PARAGUAY	1577
D6	COMOROS	30	PP<-PY<	TRINIDADE & MARTIM VAZ IS., BRAZIL 24		ZR-ZU	REPUBLIC OF SOUTH AFRICA	5487
EA-EH	SPAIN	43828	PP<-PY<	ST PETER & ST PAUL ROCKS	31	ZX,ZY	BRAZIL	51
EA6-EH6	BALEARIC	1194	PZ	SURINAME	98	ZZ	ZIMBABWE	263
EA8-EH8	CANARY	3064	P2	PAPUA NEW GUINEA	238	2E,2I,2W	ENGLAND, U.K.	1511
EA9-EH9	CEUTA & MELILLA, SPAIN	641	P4	ARUBA	121	2M	SCOTLAND, U.K.	228
EI,EJ	IRELAND	2191	R, U	RUSSIA	29409	3A	MONACO	63
EJ	ARAN IS., IRELAND	8	SA-SM	SWEDEN	12857	3B6	AGALEGA IS.	4
EK	ARMENIA	6	SN-SR	POLAND	10191	3B7	ST. BRANDON IS.	4
EL	LIBERIA	147	ST	SUDAN	6	3B8	MAURITIUS IS.	45
EM-EO	UKRAINE	6	SU	EGYPT	47	3B9	RODRIGUEZ IS.	6
EP-EQ	IRAN	30	SV-SZ	GREECE	2620	3C	EQUATORIAL GUINEA	12
ER	MOLDOVA	66	S2	BANGLADESH	6	3DA	SWAZILAND	15
ES	ESTONIA	735	S5	SLOVENIA	4860	3D2	FUJI IS.	26
ET	ETHIOPIA	26	S7	SEYCHELLES	35	3V	TUNISIA	5
EU-EW	BELARUS	84	S8	TRANSKEI	9	3W	VIETNAM	3
EX	KYRGYZSTAN	3	S9	SAO TOME & PRINCIPE	8	4F	PHILIPPINES	35
EY	TAJIKISTAN	64	TA-TC	TURKEY	592	4J,4K	AZERBAIJAN	41
EZ	TURKMENISTAN	55	TE, TI	COSTA RICA	1505	4L	GEORGIA	17
F	FRANCE	23717	T9	COCOS IS., COSTA RICA	15	4M	VENEZUELA	6
FG	GUADELOUPE	119	TD,TG	ICELAND	137	4N4, 404	BOSNIA	97
FH	MAYOTTE	11	TJ	GUATEMALA	566	4S	SRI LANKA	226
FJ	ST. BARTHELEMY	6	TK	CAMEROON	24	4U	UNITED NATIONS	2
FK	NEW CALEDONIA	141	TL	CORSICA	166	4U	UNITED NATIONS	2
FM	MARTINIQUE	120	TN	CENTRAL AFRICAN	29	4X, 4Z	ISRAEL	1291
FO	FRENCH POLYNESIA	171	TP	CONGO	9	5A	LIBYA	2
FP	ST. PIERRE & MIQUELON IS.	17	TR	COUNCIL OF EUROPE	2	5B	CYPRUS	673
FR	REUNION IS.	111	TT	GABON	47	5H1	ZANZIBAR, TANZANIA	2
FJ, FS	SAINT MARTIN	4	TV-TX	CHAD	8	5H-SI	TANZANIA	31
FY	FRENCH GUIANA	135	TU	IVORY COAST	366	5N, 5O	NIGERIA	461
G, GX	ENGLAND	69907	TV-TX	FRANCE	1	5R, 5S	MADAGASCAR	8
GD,GT	ISLE OF MAN	223	TY	BENIN	12	5T	MAURITANIA	16
GI,GN	NORTHERN IRELAND, U.K.	1736	TZ	MALI	17	5U	NIGER	18
GJ	JERSEY	114	T2	TUVALU	24	5V	TOGO	12
GM,GS	SCOTLAND, U.K.	3769	T3	KIRIBATI	102	5W	WESTERN SAMOA	160
GU,GP	GUERNSEY	130	T5	SOMALI REPUBLIC	6	5X	UGANDA	7
GW,GC	WALES, U.K.	4228	T7	REPUBLIC OF SAN	76	5Y, 5Z	KENYA	172
			T9	BOSNIA & HERZEGOVINA	1564	6T, 6U	SUDAN	4
HA, HG	HUNGARY	5653	UR-UZ	UKRAINE	140	6V-6W	SENEGAL	179
HB	SWITZERLAND	4847	VE	CANADA	47144	6Y	JAMAICA	194
HB<	LIECHTENSTEIN	18	VK	AUSTRALIA	18274	7J-7N	JAPAN	549
HC,HD	ECUADOR	1944	VO1	NEWFOUNDLAND, CANADA	987	7P	LESOTHO	29
HC8,HD8	GALAPAGOS IS., ECUADOR	38	VO2	LABRADOR, CANADA	110	7Q	MALAWI	75
HH	HAITI	124	VP2E	ANGUILLA, LEEWARD IS.	79	7T-7Y	ALGERIA	79
HI	DOMINICAN REPUBLIC	1969	VP2M	MONTERRAT, LEEWARD IS.	141	7Z	SAUDI ARABIA	2
HJ<-HK<	SAN ANDRES & PROVIDENCIA	117	VP2V	BRITISH VIRGIN IS., LEEWARD IS.	51	8J-8N	JAPANESE SPECIAL STATIONS	43
HL	SOUTH KOREA	5942	VP5	TURKS & CAICOS ISLANDS	34	8P	BARBADOS	280
HO-HP	PANAMA	1889	VP8	FALKLAND & BRITISH S. ATLANTIC IS. 802		8Q	MALDIVE IS.	50
HO-HR	HONDURAS	289	VP9	BERMUDA	155	8R	GUYANA	47
HS	THAILAND	496	VR6	CHAGOS ARCHIPELAGO	40	9A	CROATIA	5692
HU	EL SALVADOR	1	VR2,VS6	PITCAIRN IS.	12	9F	ETHIOPIA	1
HV	VATICAN CITY	4	VU	HONG KONG	349	9G	GHANA	212
HZ	SAUDI ARABIA	10	VY1,VY5	INDIA	5531	9H	MALTA	303
H4	SOLOMON IS.	18	VY2	YUKON TERRITORY, CANADA	93	9I, 9J	ZAMBIA	48
I	ITALY	31979	V3	PRINCE EDWARD IS., CANADA	221	9K	KUWAIT	229
IA	TUSCAN ARCHIPELAGO, ITALY	13	V4	ANTIGUA & BARBUDA, LEEWARD IS.	53	9L	SIERRA LEONE	37
IC	CAPRI & ISCHIA IS., ITALY	49	V5	BELIZE	308	9M2, 9M4	MALAYSIA	306
IM<-IS<	SARDINIA, ITALY	478	V6	ST. KITTS-NEVIS, LEEWARD IS.	69	9M6	SABAH, MALAYSIA	62
IT	SICILY, ITALY	1292	V7	NAMIBIA	141	9M8	SARAWAK, MALAYSIA	72
			V8	MICRONESIA	71	9N	NEPAL	5
JA-JS	JAPAN	37367	V7	MARSHALL ISLANDS	68	9Q-9T	ZAIRE	13
JD1	OGASAWARA IS., JAPAN	265	XA-XI	BRUNEI	84	9U	BURUNDI	2
JT-JV	MONGOLIA	49	XP	MEXICO	9213	9V	SINGAPORE	112
JW	SVALBARD IS., NORWAY	54	XQ	GREENLAND	1	9X	RWANDA	32
JX	JAN MAYEN IS., NORWAY	29	XT	CHILE	103	9Y, 9Z	TRINIDAD & TOBAGO	308
JY	JORDAN	186	XU	BURKINA-FASO	30			
J2	DJIBOUTI	62		CAMBODIA	9			
J3	GRENADA, WINDWARD ISLANDS	71						

\*From the 1997 RADIO AMATEUR CALLBOOK.



# CENSUS OF U.S. AMATEURS BY STATE AND ZIP CODE

This table, compiled from the 1997 Radio Amateur Callbook, lists the current U.S. amateur radio licenses for each ZIP code prefix (the first three digits of the ZIP code). Zip codes not shown have not been assigned by the U.S. Postal Service. The official two letter abbreviation is shown to the right of the state or territorial name.

ALABAMA	AL
1.50% OF U.S. AMATEUR POPULATION	
ZIP 350	935 LICENSES
351	793
352	1,326
354	363
355	330
356	1,041
357	624
358	1,138
359	685
360	353
361	393
362	422
363	478
364	180
365	577
366	582
367	197
368	328
369	15

ALASKA	AK
0.45% OF U.S. AMATEUR POPULATION	
ZIP 995	1,210 LICENSES
996	607
997	916
998	351
999	102

ARIZONA	AZ
2.12% OF U.S. AMATEUR POPULATION	
ZIP 850	2,829 LICENSES
852	3,804
853	2,271
854	2
855	443
856	1,006
857	2,377
859	270
860	506
863	902
864	689
865	36

ARKANSAS	AR
0.94% OF U.S. AMATEUR POPULATION	
ZIP 716	221 LICENSES
717	216
718	165
719	549
720	817
721	731
722	538
723	289
724	657
725	285
726	550
727	788
728	392
729	517

CALIFORNIA	CA
15.23% OF U.S. AMATEUR POPULATION	
ZIP 900	3,851 LICENSES
901	1
902	4,233
903	166
904	413
905	838
906	2,322
907	2,709
908	1,665
909	1
910	1,422
911	672
912	810
913	4,722
914	829
915	513
916	511
917	5,636
918	206
919	742
920	4,325
921	4,148
922	1,551
923	4,555
924	430
925	2,656
926	7,677
927	1,896
928	1,294
929	3
930	2,302
931	940
932	1,510
933	695
934	1,728
935	2,153
936	892
937	862
938	2
939	899
940	3,824
941	1,135
943	552
944	390

945	6,432
946	649
947	451
948	340
949	1,414
950	3,619
951	2,848
952	953
953	1,832
954	1,925
955	724
956	3,538
957	481
958	1,732
959	1,811
960	1,213
961	305

COLORADO	CO
1.65% OF U.S. AMATEUR POPULATION	
ZIP 800	1,674 LICENSES
801	1,336
802	1,623
803	634
804	730
805	1,470
806	268
807	211
808	342
809	1,559
810	511
811	134
812	278
813	186
814	199
815	360
816	286

CONNECTICUT	CT
1.31% OF U.S. AMATEUR POPULATION	
ZIP 060	1,912 LICENSES
061	651
062	426
063	862
064	2,362
065	453
066	340
067	800
068	1,388
069	209

DELAWARE	DE
0.21% OF U.S. AMATEUR POPULATION	
ZIP 197	475 LICENSES
198	455
199	582

DIST. OF COLUMBIA	DC
0.10% OF U.S. AMATEUR POPULATION	
ZIP 200	455 LICENSES
201	221
203	43
205	30

FLORIDA	FL
6.06% OF U.S. AMATEUR POPULATION	
ZIP 320	1,595 LICENSES
321	1,016
322	1,668
323	728
324	785
325	2,100
326	1,363
327	3,037
328	1,343
329	2,641
330	3,438
331	4,012
332	52
333	1,800
334	3,082
335	2,129
336	1,188
337	1,109
338	1,407
339	2,254
340	134
341	49
342	1,581
343	3
344	718
345	2
346	2,547
347	618
349	967

GEORGIA	GA
2.05% OF U.S. AMATEUR POPULATION	
ZIP 300	2,599 LICENSES
301	1,813
302	2,620
303	1,200
304	190
305	1,140
306	558
307	673
308	221
309	328

310	915
311	4
312	310
313	201
314	381
315	458
316	178
317	577
318	102
319	212

GUAM	GU
0.11% OF U.S. AMATEUR POPULATION	
ZIP 969	801 LICENSES

HAWAII	HI
0.50% OF U.S. AMATEUR POPULATION	
ZIP 967	2,374 LICENSES
968	1,183

IDAHO	ID
0.54% OF U.S. AMATEUR POPULATION	
ZIP 832	373 LICENSES
833	294
834	549
835	222
836	832
837	789
838	811

ILLINOIS	IL
3.47% OF U.S. AMATEUR POPULATION	
ZIP 600	4,153 LICENSES
601	3,208
602	155
603	144
604	2,274
605	1,919
606	2,268
607	40
608	7
609	253
610	753
611	556
612	523
613	403
614	409
615	650
616	460
617	527
618	750
619	241
620	835
622	991
623	380
624	386
625	517
626	382
627	339
628	681
629	609

INDIANA	IN
2.18% OF U.S. AMATEUR POPULATION	
ZIP 460	1,177 LICENSES
461	1,200
462	1,835
463	1,400
464	166
465	1,218
466	354
467	963
468	943
469	1,085
470	247
471	565
472	412
473	989
474	738
475	391
476	350
477	413
478	512
479	662

IOWA	IA
0.99% OF U.S. AMATEUR POPULATION	
ZIP 500	495 LICENSES
501	385
502	337
503	500
504	211
505	319
506	329
507	146
508	106
510	166
511	230
512	51
513	181
514	64
515	325
516	86
520	219
521	82
522	306
523	477
524	565

525	313
526	489
527	462
528	266

KANSAS	KS
1.07% OF U.S. AMATEUR POPULATION	
ZIP 660	1,112 LICENSES
661	283
662	903
664	243
665	392
666	507
667	321
668	154
669	117
670	646
671	415
672	953
673	258
674	470
675	323
676	187
677	93
678	218
679	42

KENTUCKY	KY
1.25% OF U.S. AMATEUR POPULATION	
ZIP 400	504 LICENSES
401	307
402	1,471
403	742
404	256
405	740
406	130
407	216
408	92
409	173
410	767
411	472
412	90
413	66
414	23
415	222
416	180
417	74
418	46
420	587
421	373
422	228
423	376
424	366
425	130
426	68
427	276

LOUISIANA	LA
1.05% OF U.S. AMATEUR POPULATION	
ZIP 700	1,074 LICENSES
701	559
703	317
704	789
705	666
706	337
707	683
708	812
710	396
711	649
712	588
713	311
714	355

MAINE	ME
0.63% OF U.S. AMATEUR POPULATION	
ZIP 039	157 LICENSES
040	1054
041	251
042	486
043	312
044	569
045	235
046	410
047	263
048	170
049	569

MARYLAND	MD
1.69% OF U.S. AMATEUR POPULATION	
ZIP 206	748 LICENSES
207	1,683
208	1,750
209	722
210	1,860
211	1,159
212	1,471
214	395
215	305
216	369
217	1059
218	350
219	187

MASSACHUSETTS	MA
2.24% OF U.S. AMATEUR POPULATION	
ZIP 010	1,168 LICENSES
011	238
012	496

013	280
014	817
015	928
016	289
017	1,669
018	1,788
019	1,301
020	1,015
021	2,704
022	28
023	785
024	122
025	423
026	811
027	1,196

MICHIGAN	MI
3.04% OF U.S. AMATEUR POPULATION	
ZIP 480	2,900 LICENSES
481	3,310
482	879
483	1,371
484	1,223
485	486
486	1,016
487	424
488	1,260
489	310
490	1,934
491	358
492	890
493	718
494	1,279
495	870
496	732
497	664
498	697
499	441

MINNESOTA	MN
1.54% OF U.S. AMATEUR POPULATION	
ZIP 550	1,061 LICENSES
551	1,660
552	1
553	1,520
554	2,298
555	63
556	559
557	559
558	399
559	859
560	533
561	157
562	271
563	505
564	332
565	377
566	279
567	169

MISSISSIPPI	MS
0.67% OF U.S. AMATEUR POPULATION	
ZIP 386	401 LICENSES
387	129
388	534
389	104
390	335
391	488
392	344
393	344
394	684
395	987
396	132
397	301

MISSOURI	MO
1.82% OF U.S. AMATEUR POPULATION	
ZIP	LICENSES
630	1,598
631	1,731
633	843
634	210
635	164
636	211
637	228
638	171
639	180
640	1,557
641	1,235
644	187
645	205
646	189
647	296
648	475
650	296
651	175
652	508
653	239
654	201
655	284
656	624
657	681
658	548



# CENSUS OF U.S. AMATEURS BY STATE AND ZIP CODE

594 369  
595 80  
596 259  
597 572  
598 544  
599 316

NEBRASKA NE  
0.57% OF U.S. AMATEUR POPULATION  
ZIP 680 461 LICENSES

681 1,022  
683 179  
684 173  
685 176  
686 183  
687 305  
688 348  
689 187  
690 74  
691 254  
692 29  
693 178

NEVADA NV  
0.59% OF U.S. AMATEUR POPULATION  
ZIP 890 756 LICENSES

891 1,512  
893 23  
894 831  
895 750  
897 275  
898 93

NEW HAMPSHIRE NH  
0.69% OF U.S. AMATEUR POPULATION  
ZIP 030 1,820 LICENSES

031 449  
032 655  
033 208  
034 344  
035 152  
036 58  
037 287  
038 984

NEW JERSEY NJ  
2.50% OF U.S. AMATEUR POPULATION  
ZIP 070 2,786 LICENSES

071 296  
072 223  
073 174  
074 1,331  
075 176  
076 1,216  
077 1,553  
078 1,055  
079 702  
080 2,721  
081 251  
082 613  
083 543  
084 72  
085 641  
086 503  
087 1,089  
088 1,788  
089 117

NEW MEXICO NM  
0.71% OF U.S. AMATEUR POPULATION  
ZIP 870 463 LICENSES

871 1,717  
873 62  
874 166  
875 695  
877 61  
878 124  
879 59  
880 898  
881 140  
882 377  
883 312  
884 24

NEW YORK NY  
5.13% OF U.S. AMATEUR POPULATION  
ZIP 100 1,237 LICENSES

101 80  
102 22  
103 1,423  
104 872  
105 1,361  
106 108  
107 367  
108 121  
109 1,059  
110 562  
111 152  
112 1,685  
113 1,225  
114 744  
115 1,350  
116 111  
117 3,956  
118 234  
119 665  
120 1,035  
121 748  
122 306

123 558  
124 505  
125 1,248  
126 267  
127 243  
128 543  
129 498  
130 1,189  
131 529  
132 557  
133 488  
134 670  
135 174  
136 641  
137 513  
138 582  
139 268  
140 1,286  
141 607  
142 988  
143 121  
144 980  
145 1,075  
146 1,238  
147 494  
148 868  
149 155

NORTH CAROLINA NC  
2.50% OF U.S. AMATEUR POPULATION  
ZIP 270 546 LICENSES

271 562  
272 1,175  
273 626  
274 613  
275 1,672  
276 1,118  
277 396  
278 810  
279 343  
280 1,158  
281 1,143  
282 999  
283 1,324  
284 666  
285 985  
286 1,409  
287 1,855  
288 376  
289 135

NORTH DAKOTA ND  
0.24% OF U.S. AMATEUR POPULATION  
ZIP 580 154 LICENSES

581 258  
582 274  
583 124  
584 144  
585 333  
586 164  
587 214  
588 56

OHIO OH  
4.49% OF U.S. AMATEUR POPULATION  
ZIP 430 1,768 LICENSES

431 836  
432 1,494  
433 568  
434 448  
435 819  
436 845  
437 475  
438 194  
439 613  
440 2,681  
441 2,600  
442 1,790  
443 748  
444 1,110  
445 460  
446 1,185  
447 568  
448 862  
449 348  
450 1,706  
451 1,013  
452 2,282  
453 2,069  
454 1,876  
455 274  
456 962  
457 472  
458 1,060

OKLAHOMA OK  
1.32% OF U.S. AMATEUR POPULATION  
ZIP 730 1,693 LICENSES

731 1,564  
732 203  
733 675  
734 120  
735 324  
736 109  
737 74  
738 1,480  
739 1,223  
740 340  
741 450  
742 450

745 235  
746 191  
747 177  
748 439  
749 147

OREGON OR  
1.82% OF U.S. AMATEUR POPULATION  
ZIP 970 2,423 LICENSES

971 1,095  
972 2,464  
973 1,914  
974 2,181  
975 1,180  
976 500  
977 629  
978 550  
979 59

PENNSYLVANIA PA  
3.64% OF U.S. AMATEUR POPULATION  
ZIP 150 1,236 LICENSES

151 836  
152 1,379  
153 383  
154 311  
155 178  
156 729  
157 331  
158 231  
159 288  
160 490  
161 588  
162 158  
163 467  
164 347  
165 451  
166 407  
167 147  
168 404  
169 278  
170 1,196  
171 285  
172 267  
173 749  
174 343  
175 620  
176 300  
177 330  
178 470  
179 220  
180 964  
181 331  
182 292  
183 373  
184 465  
185 191  
186 461  
187 249  
188 316  
189 1,036  
190 2,788  
191 1,415  
192 2  
193 911  
194 1,102  
195 372  
196 341

PUERTO RICO PR  
1.30% OF U.S. AMATEUR POPULATION  
ZIP 006 4,604 LICENSES

007 2,547  
008 376  
009 1,776

RHODE ISLAND RI  
0.38% OF U.S. AMATEUR POPULATION  
ZIP 028 2,018 LICENSES

029 666

SOUTH CAROLINA SC  
0.93% OF U.S. AMATEUR POPULATION  
ZIP 290 539 LICENSES

291 580  
292 453  
293 602  
294 1,034  
295 602  
296 1,772  
297 583  
298 342  
299 179

SOUTH DAKOTA SD  
0.22% OF U.S. AMATEUR POPULATION  
ZIP 570 336 LICENSES

571 198  
572 202  
573 152  
574 136  
575 101  
576 29  
577 423

TENNESSEE TN  
1.97% OF U.S. AMATEUR POPULATION  
ZIP 370 1,235 LICENSES

371 858

372 711  
373 1,771  
374 499  
376 1,300  
377 1,119  
378 1,619  
379 1,255  
380 587  
381 1,586  
382 249  
383 588  
384 276  
385 457

TEXAS TX  
5.97% OF U.S. AMATEUR POPULATION  
ZIP 750 4,391 LICENSES

751 1,356  
752 1,941  
753 27  
754 819  
755 357  
756 691  
757 763  
758 273  
759 414  
760 2,793  
761 1,888  
762 746  
763 555  
764 273  
765 735  
766 365  
767 350  
768 200  
769 320  
770 3,556  
771 1  
772 113  
773 1,760  
774 1,084  
775 2,279  
776 680  
777 251  
778 529  
779 327  
780 708  
781 517  
782 2,424  
783 351  
784 532  
785 770  
786 1,207  
787 1,780  
788 257  
789 160  
790 398  
791 386  
792 59  
793 289  
794 538  
795 222  
796 392  
797 792  
798 109  
799 965

UTAH UT  
1.06% OF U.S. AMATEUR POPULATION  
ZIP 840 3,101 LICENSES

841 1,621  
843 696  
844 385  
845 207  
846 1,053  
847 554

VERMONT VT  
0.31% OF U.S. AMATEUR POPULATION  
ZIP 050 238 LICENSES

051 127  
052 167  
053 112  
054 864  
055 1  
056 300  
057 244  
058 165  
059 3

VIRGINIA VA  
2.37% OF U.S. AMATEUR POPULATION  
ZIP 220 1,954 LICENSES

221 1,885  
222 464  
223 671  
224 360  
225 370  
226 411  
227 166  
228 303  
229 554  
230 395  
231 614  
232 966  
233 501  
234 1,090  
235 397  
236 859  
237 188  
238 383

239 174  
240 937  
241 524  
242 605  
243 427  
244 408  
245 1,119  
246 204

VIRGIN ISLANDS VI  
0.05% OF U.S. AMATEUR POPULATION  
ZIP 008 376 LICENSES

WASHINGTON WA  
3.44% OF U.S. AMATEUR POPULATION  
ZIP 980 5,067 LICENSES

981 2,959  
982 3,536  
983 3,346  
984 1,135  
985 1,734  
986 1,918  
987 57  
988 728  
989 786  
990 424  
991 562  
992 1,142  
993 1,145  
994 60

WEST VIRGINIA WV  
0.87% OF U.S. AMATEUR POPULATION  
ZIP 247 323 LICENSES

248 216  
249 154  
250 196  
251 278  
252 160  
253 394  
254 318  
255 380  
256 217  
257 281  
258 340  
259 189  
260 434  
261 610  
262 342  
263 346  
264 204  
265 452  
266 122  
267 140  
268 159

WISCONSIN WI  
1.51% OF U.S. AMATEUR POPULATION  
ZIP 530 1,218 LICENSES

531 1,274  
532 1,236  
533 1  
534 300  
535 860  
537 600  
538 58  
539 404  
540 239  
541 407  
542 279  
543 317  
544 969  
545 324  
546 353  
547 686  
548 437  
549 837

WYOMING WY  
0.23% OF U.S. AMATEUR POPULATION  
ZIP 820 480 LICENSES

821 2  
822 98  
823 73  
824 141  
825 93  
826 258  
827 108  
828 116  
829 186  
830 38  
831 62

APO FPO (MILITARY)  
0.16% OF U.S. AMATEUR POPULATION  
ZIP 090 157 LICENSES

091 137  
092 50  
093 4  
094 53  
095 52  
096 35  
097 29  
098 18  
099 134  
100 78  
101 207  
102 15  
103 92  
104 108



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# DXCC COUNTRIES LIST

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AP-AS	Pakistan	KG4	Guantanamo Bay	VU	India
A2	Botswana	KH1	Baker & Howland Is	VU	Andaman & Nicobar Is
A3	Tonga	KH2	Guam	VU	Laccadive Is
A4	Oman	KH3	Johnston Is	V2	Antigua & Barbuda
A5	Bhutan	KH4	Midway Is	V3	Belize
A6	United Arab Emirates	KH5	Palmyra & Jarvis Is	V4	St Kitts & Nevis
A7	Qatar	KH5K	Kingman Reef	V5	Namibia
A9	Bahrain	KH6	Hawaii	V6	Micronesia (E Caroline Is)
BV	Taiwan	KH7	Kure Is	V7	Marshall Is
BY,BT	China	KH8	American Samoa	V8	Brunei
CA-CE	Chile	KH9	Wake Is	XA-XI	Mexico
CE9/KC4	Antarctica	KH0	Mariana Is	XA4-XI4	Revilla Gígedo
CE0	Easter Is	KL7	Alaska	XT	Burkina-Faso
CE0	Juan Fernandez Is	KP1	Navassa Is	XU	Cambodia
CE0	San Felix & San Ambrosio	KP2	Virgin Is	XW	Laos
CM,CO	Cuba	KP4	Puerto Rico	XX9	Macao
CN	Morocco	KP5	Desecheo Is	XY,XZ	Myanmar
CP	Bolivia	LA-LN	Norway	YA	Afghanistan
CT	Portugal	LO-LW	Argentina	YB-YH	Indonesia
CT3	Madeira Is	LX	Luxembourg	YI	Iraq
CU	Azores	LY,UP	Lithuania	YJ	Vanuatu
CV-CX	Uruguay	LZ	Bulgaria	YK	Syria
CY9	St Paul Is	OA-OC	Peru	YL,UQ	Latvia
CY0	Sable Is	OD	Lebanon	YN	Nicaragua
C2	Nauru	OE	Austria	YO-YR	Romania
C3	Andorra	OF-OI	Finland	YS	El Salvador
C5	The Gambia	OH0	Aland Is	YT,YU,YZ	Yugoslavia
C6	Bahamas	OJ0	Market Reef	YV-YY	Venezuela
C8,C9	Mozambique	OK,OL	Czech Republic	YV0	Aves Is
DA-DL,Y2-Y9	Germany	OM	Slovak Republic	ZA	Albania
DU-DZ	Philippines	ON-OT	Belgium	ZB2	Gibraltar
D2,D3	Angola	OX	Greenland	ZC4	UK Sovereign Bases on Cyprus
D4	Cape Verde	OY	Faroes	ZD7	St Helena
D6	Comoros	OZ	Denmark	ZD8	Ascension Is
EA-EH	Spain	PA-PI	Netherlands	ZD9	Tristan da Cunha & Gough Is
EA6-EH6	Balearic Is	PJ2,4,9	Bonaire, Curacao (Neth Antilles)	ZF	Cayman Is
EA8-EH8	Canary Is	PJ5-8	Sint Maarten, Saba, & Sint Eustatius Is	ZK1	North Cook Is
EA9-EH9	Ceuta & Melilla	PP-PY	Brazil	ZK1	South Cook Is
EI,EJ	Ireland	PP0-PY0	Fernando de Noronha	ZK2	Niue
EK	Armenia	PP0-PY0	St Peter & St Paul Rocks	ZK3	Tokelau Is
EL	Liberia	PP0-PY0	Trindade & Martim Vaz Is	ZL,ZM	New Zealand
EPEQ	Iran	PZ	Surinam	ZL7	Chatham Is
ER	Moldova	P2	Papua New Guinea	ZL8	Kermadec Is
ES	Estonia	P4	Aruba	ZL9	Auckland & Campbell Is
ET	Ethiopia	SA-SM	Sweden	ZP	Paraguay
EU,EV,EW	Belarus	SN-SR	Poland	ZR-ZU	Rep of South Africa
EX	Kyrgyzstan	ST	Sudan	ZS8	Prince Edward & Marion Is
EY	Tajikistan	ST0	Southern Sudan	Z2	Zimbabwe
EZ	Turkmenistan	SU	Egypt	Z3,4N5,YU5	Macedonia
E3	Eritrea	SV-SZ	Greece	1A0	Sovereign Military Order of Malta
F	France	SV/A	Mt Athos	1S	Spratly Is
FG	Guadeloupe	SV5	Dodecanese Is	3A	Monaco
FH	Mayotte	SV9	Crete	3B6,3B7	Agalega & St Brandon Is
FJ,FS	Saint Martin	S2	Bangladesh	3B8	Mauritius Is
FK	New Caledonia	S5,YU3	Slovenia	3B9	Rodriguez Is
FM	Martinique	S7	Seychelles	3C	Equatorial Guinea
FO	Clipperton Is	S9	Sao Tome & Principe	3C0	Annohon Is
FO	French Polynesia	S0	Western Sahara	3D2	Fiji Is
FP	St Pierre & Miquelon	TA-TC	Turkey	3D2	Conway Reef
FR/G	Glorioso Is	TF	Iceland	3D2	Rotuma Is
FR/J,FR/E	Juan de Nova, Europa	TG,TD	Guatemala	3DA	Swaziland
FR	Reunion	TI,TE	Costa Rica	3V	Tunisia
FR/T	Tromelin	T9	Cocos Is	3W,XV	Vietnam
FT8W	Crozet Is	TJ	Cameroon	3X	Guinea
FT8X	Kerguelen Is	TK	Corsica	3Y	Bouvet
FT8Z	Amsterdam & St Paul Is	TL	Central African Rep	3Y	Peter I Is
FW	Wallis & Futuna Is	TR	Congo	4J,4K	Azerbaijan
FY	French Guiana	TN	Gabon	4J1,R1MV	Malaj Vyotskij Is
G,GX	England	TT	Chad	4K2,U41,R1FJ	Franz Joseph Land
GD,GT	Isle of Man	TU	Ivory Coast	4L	Georgia
GI,GN	Northern Ireland	TY	Benin	4P-4S	Sri Lanka
GJ,GH	Jersey	TZ	Mali	4U	ITU Geneva
GM,GS	Scotland	T2	Tuvalu	4U	UN Headquarters New York
GU,GP	Guernsey	T30	West Kiribati (Gilbert Is)	4X,4Z	Israel
GW,GC	Wales	T31	Central Kiribati (British Phoenix Is)	5A	Libya
HA,HG	Hungary	T32	East Kiribati (Line Is)	5B	Cyprus
HB	Switzerland	T33	Banaba Is (Ocean Is)	5H-5I	Tanzania
H80	Liechtenstein	T5	Somalia	5N-5O	Nigeria
HC,HD	Ecuador	T7	San Marino	5R-5S	Madagascar
HC8,H08	Galapagos Is	T9,4N4,4O4,YU4	Bosnia-Herzegovina	5T	Mauritania
HH	Haiti	UA-U11,3,4,6, RA-RZ	European Russia	5U	Niger
HI	Dominican Republic	UA2	Kaliningrad	5V	Togo
HJ,HK	Colombia	UA-U18,9,0, RA-RZ	Asiatic Russia	5W	Western Samoa
HK0	Malpelo Is	UJ,UM	Uzbekistan	5X	Uganda
HK0	San Andres & Providencia	UN,UQ	Kazakhstan	5Y-5Z	Kenya
HL	South Korea	UR-UZ,EM-EO	Ukraine	6V-6W	Senegal
HQ,HP	Panama	VE,VQ,VY	Canada	6Y	Jamaica
HQ,HR	Honduras	VK	Australia	70	Yemen
HS	Thailand	VK9C	Cocos-Keeling Is	7P	Lesotho
HV	Vatican	VK9L	Lord Howe Is	7Q	Malawi
HZ	Saudi Arabia	VK9M	Mellish Reef	7T-7Y	Algeria
H4	Solomon Is	VK9N	Norfolk Is	8P	Barbados
I	Italy	VK9W	Willis Is	8Q	Maldives
ISO,IMO	Sardinia	VK9X	Christmas Is	8R	Guyana
JA-JS	Japan	VK0	Heard Is	9A,YU2	Croatia
JD1	Minami-Tori-Shima	VK0	Macquarie Is	9G	Ghana
JD1	Ogasawara Is	VP2E	Anguilla	9H	Malta
JT-JV	Mongolia	VP2M	Montserrat	9I,9J	Zambia
JW	Svalbard Is	VP2V	British Virgin Is	9K	Kuwait
JX	Jan Mayen Is	VP5	Turks & Caicos Is	9L	Sierra Leone
JY	Jordan	VP8	Falkland Is	9M2,9M4	West Malaysia
J2	Djibouti	VP8,LU	South Georgia Is	9M6,9M8	East Malaysia
J3	Grenada	VP8,LU	South Orkney Is	9N	Nepal
J5	Guinea-Bissau	VP8,LU	South Sandwich Is	9Q-9T	Zaire
J6	St Lucia	VP8,LU,CE9,HF0,4K1	South Shetland Is	9U	Burundi
J7	Dominica	VP9	Bermuda Is	9V	Singapore
J8	St Vincent & Dependencies	VQ9	Chagos Is	9X	Rwanda
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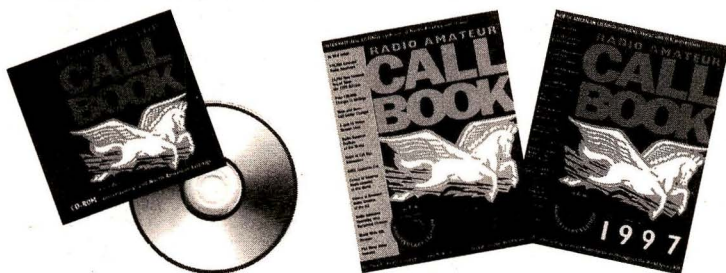
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# INTERNATIONAL "Q" SIGNALS

ABBREVIATIONS	QUESTIONS	ANSWERS OR ADVICE	ABBREVIATIONS	QUESTIONS	ANSWERS OR ADVICE
QRA	What is the name of your station?	The name of my station is...	QSY	Shall I change to transmission on another frequency?	Change to transmission on another frequency (or on...kHz (or MHz)).
QRB	How far approximately are you from my station?	The approximate distance between our stations is...nautical miles (or kilometers).	QSZ	Shall I send each word or group or more than once?	Send each word or group twice (or...times)
QRD	Where are you bound and where are you from?	I am bound for...from...	QTA	Shall I cancel telegram number... as if it had not been sent?	Cancel telegram number...as if it had not been sent.
QRG	Will you tell me my exact frequency (or that of...)?	Your exact frequency (or that of...) is kHz (or MHz).	QTB	Do you agree with my counting of words?	I do not agree with your counting of words. I will repeat the first letter or digit of each word or group.
QRH	Does my frequency vary?	Your frequency varies.	QTC	How many telegrams have you to send?	I have...telegrams for you (or for...).
QRI	How is the tone of my transmission?	The tone of your transmission is 1. Good 2. Variable 3. Bad	QTE	What is my TRUE bearing from you?	Your TRUE bearing from me is...degrees (at...hours).
QRK	What is the readability of my signals (or those of...)?	The readability of your signals (or those of...)is... 1. Unreadable. 2. Readable now and then. 3. Readable, but with difficulty. 4. Readable. 5. Perfectly readable.		or What is my TRUE bearing from... (call sign)?	or Your TRUE bearing from...(call sign) was...degrees (at...hours).
QRL	Are you busy?	I am busy (or I am busy with...). Please do not interfere.		or What is the TRUE bearing of... (call sign) from...(call sign)?	or The TRUE bearing of...(call sign) from (call sign) was...degrees (at...hours).
QRM	Are you being interfered with?	I am being interfered with.	QTG	Will you send two dashes of ten seconds each followed by your call sign (repeated...times) [on...kHz (or MHz)]?	I am going to send two dashes of ten seconds each followed by my call sign (repeated...times)[on...kHz (or MHz)].
QRN	Are you troubled by static?	I am troubled by static.		or Will you request...to send two dashes of ten seconds followed by his call sign (repeated...times) on...kHz (or MHz)?	or I have requested...to send two dashes of ten seconds followed by his call sign (repeated...times) on...kHz (or MHz)].
QRO	Shall I increase power?	Increase power.	QTH	What is your position in latitude and longitude (or according to any other indication)?	My position is...latitude...longitude (or according to any other indication).
QRP	Shall I decrease power?	Decrease power.	QTI	What is your TRUE track?	My TRUE track is...degrees.
QRQ	Shall I send faster?	Send faster (...words per minute).	QTJ	What is your speed?	My speed is...knots (or kilometers per hour).
QRR	Are you ready for automatic operation?	I am ready for automatic operation. Send at...words per minute.	QTL	What is your TRUE heading?	My TRUE heading is...degrees.
QRS	Shall I send more slowly?	Send more slowly (...words per minute).	QTN	At what time did you depart from...(place)?	I departed from...(place) at...hours.
QRT	Shall I stop sending?	Stop sending.	QTO	Have you left dock (or port)?	I have left dock (or port).
QRU	Have you anything for me?	I have nothing for you.		or Are you airborne?	or I am airborne.
QRV	Are you ready?	I am ready.	QTP	Are you going to enter dock (or port)?	I am going to enter dock (or port).
QRW	Shall I inform...that you are calling him on...kHz (or MHz)?	Please inform ...that I am calling him on...kHz (or MHz).		or Are you going to alight (or land)?	or I am going to alight (or land).
QRX	When will you call me again?	I will call you again at...hours [on...kHz (or MHz)].	QTQ	Can you communicate with my station by means of the International Code of Signals?	I am going to communicate with your station by means of the International Code of Signals.
QRY	What is my turn?	Your turn is Number...(relates to communication.)	QTR	What is the correct time?	The correct time is...hours.
QRZ	Who is calling me?	You are being called by...[on...kHz (or MHz)].	QTS	Will you send your call sign for minute(s) now (or at...hours) [on...kHz (or MHz)] so that your frequency may be measured?	I will send my call sign for minute(s) now (or at...hours) [on...kHz (or MHz)] so that my frequency may be measured.
QSA	What is the strength of my signals (or those of...)?	The strength of your signals (or those of...)is 1. Scarcely perceptible. 2. Weak. 3. Fairly good. 4. Good. 5. Very Good.	QTU	What are the hours during which your station is open?	My station is open from...to...hours.
QSB	Are my signals fading?	Your signals are fading.	QTV	Shall I stand guard for you on the frequency of...kHz (or MHz) (from...to...hours)?	Stand guard for me on the frequency of...kHz (or MHz) (from...to...hours).
QSD	Is my keying defective?	Your keying is defective.	QTX	Will you keep your station open for further communication with me until further notice (or until...hours)?	I will keep my station open for further communication with you until further notice (or until...hours).
QSG	Shall I send...telegrams at a time?	Send...telegrams at a time.	QUA	Have you news of...(call sign)?	Here is news of...(call sign).
QSJ	What is the charge to be collected per word to...including my internal telegraph charge?	The charge to be collected per word to...including my internal telegraph charge is...francs.	QUB	Can you give me, in the following order, information concerning: visibility, height of clouds, direction and velocity of ground wind at...(place of observation)?	Here is the information requested...
QSK	Can you hear me between your signals?	I can hear you between my signals.	QUC	What is the number (or other indication) of the last message you received from me [or from...(call sign)]?	The number (or other indication) of the last message I received from you [or from...(call sign)] is...
QSL	Can you acknowledge receipt?	I am acknowledging receipt.	QUD	Have you received the urgency signal sent by...(call sign of mobile station)?	I have received the urgency signal sent by...(call sign of mobile station) at...hours.
QSM	Shall I repeat the last telegram which I send you, or some previous telegram?	Repeat the last telegram which you sent me [or telegram(s) number(s)...].	QUF	Have you received the distress signal sent by...(call sign of mobile station)?	I have received the distress signal sent by...(call sign of mobile station) at...hours.
QSN	Did you hear me [or...(call sign)] on...kHz (or MHz)?	I did hear you [or...(call sign)] on...kHz (or MHz)?	QUG	Will you be forced to alight (or land)?	I am forced to alight (or land) immediately.
QSO	Can you communicate with...direct or by relay?	I can communicate with...direct (or by relay through...).		or I shall be forced to alight (or land) at...(position or place).	
QSP	Will you relay to...free of charge?	I will relay to...free of charge.	QUH	Will you give me the present barometric pressure at sea level?	The present barometric pressure at sea level is...(units).
QSQ	Have you a doctor on board [or is...(name of person) on board]?	I have a doctor on board [or (name of person) is on board].			
QSU	Shall I send or reply on this frequency [or on...kHz (or MHz)] (with emissions of class...)?	Send or reply on this frequency [or on...kHz (or MHz)](with emissions of class...).			
QSV	Shall I send a series of V's on this frequency [or...kHz(or MHz)]?	Send a series of V's on this frequency [or...kHz (or MHz)].			
QSW	Will you send on this frequency [or on...kHz (or MHz)] (with emissions of class)?	I am going to send on this frequency [or on...kHz (or MHz)] (with emissions of class...).			
QSX	Will you listen to...(call sign(s)) on...kHz (or MHz)?	I am listening to [call sign(s)] on...kHz (or MHz).			



# QSL BUREAUS

AP-AS	Pakistan Amateur Radio Society, Box 1450 Islamabad 44000, Pakistan	HH,4V	Radio Club of Haiti, Box 1484, Port-au-Prince, Haiti	R,UA-UI	Soyuz Radiolyubiteley Rossii, Box 59, Moscow 105122, Russia
A2,80	Botswana Amateur Radio Society, Box 1873 Gaborone, Botswana	HI	Radio Club Dominicana, Box 1157, Santo Domingo, Dominicana	SA-SM,7S,8S	Foreningen Sveriges Sandareamatorer, Box 2021, S-12326 Farsta, Sweden
A3	Amateur Radio Club of Tonga, c/o M. Schuster, Box 1078,Nuku 'alofa, Tonga	HJ-HK,5J-5K	Liga Colombiana de Radioaficionados, Box 584, Bogota, Columbia	SN-SR,HF,3Z	PZK QSL Bureau, Box 320, PL-00950 Warszawa 1, Poland
A4	Royal Omani Amateur Radio Society, Box 981, Muscat,113 Oman	HL	Korean Amateur Radio League, Box 162, CPO, Seoul 100-601,Korea	SU	EAWC, QSL Bureau, c/o Wireless Officers Club, Ramsis Bldg., Floor 13 Flat 10, 6 Ramsis Square, Cairo 11111, Egypt
A7	Qatar Amateur Radio Society, Box 22122 Doha, Qatar	HL9	US Personnel in the Republic of Korea, American Amateur Radio	SV-SZ,J4	Radio Amateur Association of Greece, Box 3564, GR-10210 Athens, Greece
A9	ARAB QSL Bureau, Box 22381, Muharraq, Bahrain	HO-HP,H3	Club of Korea, Dependent Mail Section, Box 153, APO, AP 96206	S2-S3	Bangladesh Amateur Radio League, Box 3512, GPO, Dhaka, Bangladesh
BA-BZ	Chinese Radio Sports Association, Box 6106, Beijing, China 100061	HQ-HR	Radio Club de Honduras, Box 273, San Pedro Sula, Honduras	S5	Zveza Radioamaterjev Slovenije, Box 180, SI-1001 Ljubljana, Slovenia
BV	Chinese Taipei Amateur Radio League, Box 73, Taipei 100	HS,E2	RAST QSL Bureau, GPO Box 2008, Bangkok, 10501 Thailand	TA-TC,YM	Telsiz Radyo Amatorleri Cemiyeti, Box 109, TR-34432 Istanbul, Turkey
CA-CE,XQ-XR	Radio Club of Chile, Box 13630, Santiago 21,Chile	H4	SIRS, Box 418, Honiara, Solomon Islands	TF	Islenzkir Radioamatorar, Box 1058, IS-121 Reykjavik, Iceland
CM,CO,T4	Federacion de Radioaficionados de Cuba, Box 1, Habana 10100, Cuba	I	ARI,Via Scariatti 31, I-20124 Milano	TG,TD	Club de Radioaficionados de Guatemala, Box 115, Guatemala City, Guatemala
CN	ARRAM, Box 299, Rabat, Morocco	JA-JS,7J-7N,	JARL, 1-14-5 Sugamo, Toshima, Tokyo, 170-73 Japan	TE-TI	Radio Club of Costa Rica, Box 2412, San Jose 1000, Costa Rica
CP	Radio Club Boliviano, Box 2800, Cochabamba, Bolivia	8J-8N	Mongolian Radio Sports Federation, Box 639, Ulaan Baatar 13, Mongolia	TR	Association Gabonaise des Radio-Amateurs, Box 1826, Libreville, Gabon
CQ-CU	Rede dos Emissores Portugueses, Rua D. Pedro V 7-4, P-1200 Lisboa, Portugal	JT-JV	Royal Jordanian Radio Amateur Society, Box 2353, Amman, Jordan	TU	Association des Radio Amateurs Ivoiriens, Box 2946, Abidjan 01, Ivory Coast
CV-CX	Radio Club Uruguayo, Box 37, Montevideo 11000, Uruguay	JY	Association des Radioamateurs de Djibouti, Box 1076, Djibouti	TZ	Club des Radioamateurs et Affiliés du Mali, Box 2826, Bamako, Mali
C3	Unio de Radioaficionats Andorrans, Box 1150, La Vella, Andorra	J2	Grenada Amateur Radio Club, Box 737, St George's, Grenada	T7	ARRSM QSL Bureau, Box 77, RSM-47031 San Marino
C5	Radio Society of The Gambia, c/o J.-M. Voinot, PMB 120, Banjul, Gambia	J3	Dominica Amateur Radio Club, Box 389, Roseau, Dominica	T9	Asocijacija Radioamatera Bosne i Hercegovine, Box 61, 71001 Sarajevo, Bosnia
C6	Bahamas Amateur Radio Society, Box SS-6004, Nassau, Bahamas	J7		UJ-UM	Uzbek Radioamateur Federation, Box 0, 700000 Tashkent, Uzbekistan
C8-C9	Liga dos Radio Emissores de Mocambique, Box 25, Maputo, Mozambique	LA-LN,JW-	Norsk Radio Relae Liga, Box 20, Haugenstua, N-0915 Oslo, Norway	UN-UQ	Kazakhstan Amateur Radio Union, Box 112, 470055 Karaganda, Kazakhstan
DA-DR	DARC, Box 1155, D-34216 Baunatal, Germany	JX,3Y		UR-UZ,EM-E0	Ukrainian Amateur Radio League, Box 56, Kiev 252001, Ukraine
DU-DZ,4D-4I	Philippine Amateur Radio Association, Box 4083, Manila, Philippines	LO-LW,AY-AZ,		V2	Antigua and Barbuda Amateur Radio Society, Box 1111, St. Johns
EA-EH,AM-AO	Union de Radioaficionados Espanoles, Box 220, E-28080 Madrid, Spain	L2-L9	Radio Club Argentina, Box 97, 1000 Buenos Aires, CF, Argentina	V3	c/o B. Leonard, V31HK, Box 168, Belmopan, Belize
EI-EJ	Irish Radio Transmitters Society, Box 462, Dublin 9, Ireland	LX	RL QSL Bureau, Box 1352, L-1013 Luxembourg	V5	Namibian Amateur Radio League, Box 1100, Windhoek 9000, Namibia
EL,5L-5M	Liberia Radio Amateur Association, Box 10-1477, 1000 Monrovia 10, Liberia	LY	Lietuvos Radijo Megeju Draugija,Box 1000, 2001 Vilnius, Lithuania	V7	Kwajalein Amateur Radio Club, Box 444, APO, AP 96555, USA
ER	Asociatia Radioamatorilor din Republica Moldova, Box 6637, 277050 Kishinev, Moldova	LZ	Bulgarian Federation of Radio Amateurs, Box 830, 1000 Sofia, Bulgaria	V8	Brunei Darussalam Amateur Radio Association, Box 73, Gadong, Bandar Seri Begawan 3100, Brunei
ES	Eesti Raadioamatooride Uhing, Box 125, EE-0090 Tallinn, Estonia	OA-OC,4T	Radio Club of Peru, Box 538, Lima 100, Peru	VA-VG,VO,	
ET	Ethiopian Amateur Radio Society, Box 60258, Addis Ababa, Ethiopia	OD	Association des Radio-Amateurs Libanais, Box 11- 8888, Beirut, Lebanon	VX-VY,CF-CK,	
EU-EW	Belarus Fed of Radioamateurs and Radiosportsmen,Box 469, 220050 Minsk, Belarus	OE	OE VSV QSL Bureau, Theresiengasse 11, A-1180 Vienna, Austria	CY-CZ,XJ-XO:	
EX	Union of Radioamateurs of Kirghizstan, Box 1100, 720020 Bishkek 20, Kyrgyzstan	OF-OJ	SRAL QSL Bureau, Box 30, SF-00381 Helsinki, Finland	CANADA	
EY	Tajik Amateur Radio League, Box 303, Glavpochtamt, Dushanbe 734001, Tajikistan	OK-OL	Czech Radio Club, Box 69, 11327 Praha 1, Czech Republic	VE,VO,VY	c/o Loyalist City ARC, Box 51, St. John, NB E2L 3X1
EZ	Liga Radiolyubiteley Turkmenistana, Box 555, Ashgabat 744020, Turkmenistan	OM	Slovak Amateur Radio Association, Box 1, 85299 Bratislava 5, Slovakia	VE1,VE9,VE0,	
F,HW-HY,TK,TM		ON-OT	UBA QSL Bureau, Box 400, B-8400 Ostend WV, Belgium	VY2	Brit Fader Memorial QSL Bureau, Box 8895, Halifax, NS B3K 5M5
TO-TQ	Reseau des Emetteurs Francais, Box 2129, F-37021 Tours Cedex, France	OY	FRA QSL Bureau, Box 1358, FR-110 Torshavn, Faroe Islands	VE2	c/o J. Dube, VE2QK, 875 St Severe St, Troi-Rivieres, PQ G9A 4G4
FO	CORA QSL Bureau, Box 5006, Pirae, Tahiti, French Polynesia	OU-OZ	c/o B.W. Nielsen, OZ7BW, Solbjerghevedej 76, 76, DK-8355 Ny Solbjerg, Denmark	VE3	c/o Ontario Trilliums, Box 157, Downsview, ON M3M 3A3
FK	Association des Radio-Amateurs de Nouvelle- Caledonie, Box 3956, Noumea, New Caledonia	PA-PI	Dutch QSL Bureau, Box 330, NL-6800 AH Arnhem, Netherlands	VE4	c/o A. Romanchuk, VE4SN, 26 Morrison St,Winnipeg, MB R2V 3B4
G,2A-2Z	RSGB QSL Bureau, Box 1773, Potters Bar EN6 3EP, England, United Kingdom	PJ	Vereniging voor Experimenteel Radio Onderzoek in de Nederlandse Antillen, Box 3383, Curacao	VE5	c/o Bj. Madsen, VE5FX, 739 Washington Dr.,Weyburn, SK S4H 3C7
HA,HG	MRASZ QSL Bureau, Box 214, H-1368 Budapest 5	PP-PY,ZV-ZZ	Liga Brasileira de Radioamadores, Box 07-0004, 70.359 Brasilia, DF, Brazil	VE6	c/o L. Langston, VE6LLL, Box 3364, Ft Saskatchewan, AB T8L 2T3
HB,HE	USKA QSL Service, Box 111, CH-4705 Wangen an der Aare, Switzerland	PZ	VRAS QSL Bureau, Box 566, Paramaribo, Surinam	VE7	c/o D. Livesay, VE7DK, 8309 112th St.,Delta, BC V4C 4W7
HBO	AFVL QSL Bureau, Box 501, FL-9494 Schaan, Liechtenstein	P2-P3	PNGARS QSL Bureau, Box 141, Port Moresby, Papua New Guinea	VE8	c/o R. Ziemann, VE8RZ, 2 Taylor Rd.,Yellowknife, NT X1A 2K9
HC-HD	Guayaquil Radio Club, Box 5757, Guayaquil, Ecuador	P4	Aruba Amateur Radio Club QSL Bureau, Box 2273, San Nicolas, Aruba	VO	c/o R. Peddle, VQ1BD, Box 6, St. John's, NF A1C 5H5



# QSL BUREAUS

VY1	c/o W. Champagne, VY1AU, Box 4597, Whitehorse, YT Y1A 2R8	XA-XI,4A-4C, 6D-6J	Federacion Mexicana de Radio Experimentadores, Box 907, 06000 Mexico D.F., Mexico	5Y-5Z	Radio Society of Kenya, Box 45681, Nairobi, Kenya
VH-VN,AX:	AUSTRALIA	XT	Association des Radioamateurs du Burkina Faso, c/o Y Kaba, XT2KY, ONATEL, Box 01, Ouagadougou 10000	6V-6W	Association des Radio-Amateurs du Senegal, Box 971, Dakar, Senegal
VK1	Box 600, GPO Canberra, ACT 2601	XY-XZ	Burma Amateur Radio Transmitting Society(closed)	6Y	Jamaica Amateur Radio Association, 75 Arnold Rd, Kingston 5, Jamaica
VK2	Box 73, Teralba, NSW 2284	YB-YE,8A-8I	ORARI QSL Bureau, Box 96, Jakarta 10002, Indonesia	7P	Lesotho Amateur Radio Society, Box 949, Maseru 100, Lesotho
VK3	40G Victory Blvd, Ashburton, Victoria 3147	YI,HN	Iraqi Radio Amateur Club, Box 55072, Baghdad 12001 Iraq	7T-7Y	Amateurs Radio Algeriens, Box 1, Alger Gare, Algeria
VK4	Box 638, GPO, Brisbane, QLD 4001	YJ	Vanuatu Amateur Radio Society, Box 665, Port Villa, Vanuatu	8P	Amateur Radio Society of Barbados, Box 814E, Bridgetown, Barbados
VK5	Box 10092, Gouger St. Adelaide, SA 5000	YK,6C	Technical Institute of Radio, Box 245, Damascus, Syria	8R	Guyana Amateur Radio Association, Box 101122, Georgetown, Guyana
VK6	Box F319, GPO, Perth, WA 6001	YL	Latvias Radioamatieru Liga, Box 614, LV-1098 Riga, Latvia	9A	Hrvatski Radio-Amaterski Savez, Dalmatinska 12, HR-10000 Zagreb, Croatia
VK7	Box 371D, GPO, Hobart, TAS 7001	YN,HT	Club de Radioexperimentadores de Nicaragua, Box 925, Managua, Nicaragua	9G	Ghana Amateur Radio Society, Box 3936, Accra, Ghana
VK8	c/o H.G. Andersson, VK8HA, Box 619, Humpty Doo, NT 0836	YO-YR	Federatia Romana de Radioamatorism, Box 22-50, R-71100 Bucuresti, Romania	9H	Malta Amateur Radio League, Box 575, Valletta, Malta
VK9-0	c/o N. Penfold, VK6NE, 2 Moss Court, Kingsley, WA 6026	YS	Club de Radio Aficionados de El Salvador, Box 517, San Salvador, El Salvador	9I,9J	Radio Society of Zambia, Box 20332, Kitwe, Zambia
VP2E	Anguilla Amateur Radio Society, Box 1, Anguilla	YT-YU,YZ, 4N-4O	Saves Radio-Amatera Jugoslavije, Box 48, YU-11001 Beograd, Yugoslavia	9K	Kuwait Amateur Radio Society, Box 5240, Safat 13053, Kuwait
VP2M	Montserrat Amateur Radio Society, Box 448, Plymouth, Montserrat	YV-YY,4M	Radio Club Venezolano, Box 2285, Caracas 1010A Venezuela	9L	Sierra Leone ARS, Box 10, Freetown, Sierra Leone
VP2V	BVIRL QSL Bureau, c/o D.J. de Jong, VP2VF, Box 137, Road Town, British Virgin Islands	ZA	Albanian Amateur Radio Association, Box 66, Tirana, Albania	9M	Malaysian Amateur Radio Transmitters' Society, Box 10777, 50724 Kuala Lumpur, Malaysia
VP5	Turks and Caicos Amateur Radio Society, c/o J. Millsbaugh, VP5JM, Box 218, Providenciales, Turks and Caicos Islands	ZB2	Gibraltar Amateur Radio Society, Box 292, Gibraltar	9V	Singapore Amateur Radio Transmitting Society, Box 2728, GPO, Singapore 9047
VP8	Falkland Islands Radio Club, Box 260, Mount Pleasant Airport, Falkland Islands	ZC4	Joint Signal Board Hq., BFC, BFPO 53, London GPO, United Kingdom, British Forces, Cyprus	9Y-9Z	Trinidad and Tobago Amateur Radio Society, Box 1167, Port of Spain, Trinidad and Tobago
VP9	Radio Society of Bermuda, Box HM 275, Hamilton HM AX, Bermuda	ZD8	Ascension Amateur Radio Relay League, Box 4127, Patrick AFB, FL 32925-0127, USA, Ascension Island		
VQ9	c/o R Shaw, VQ9RS/KA0MXI, NSF, Box 16 FPO, AP 96464, USA	ZF	Cayman Amateur Radio Society, Box 1029, Grand Cayman, Cayman Islands		
VR2,VS6	Hong Kong Amateur Radio Transmitting Society, Box 541, Hong Kong	ZL-ZM	NZART QSL Bureau, Box 857 Wanganui 5015, New Zealand		
VT-VW	Amateur Radio Society of India, Box 6538, Bombay 400026	ZP	Radio Club Paraguayo, Casila de Correo 512, Asuncion, Paraguay		
	ARSI Bombay Branch, Box 1142, Madras 600061 India	ZR-ZU	South African Radio League, Box 807, Houghton 2041, South Africa		
W,AA-AL,K,N: USA		Z2	Zimbabwe Amateur Radio Society, Box 2377, Harare, Zimbabwe		
W1	Box 80216, Springfield, MA 01138-0216	Z3	Association of Amateur Radio Operators of Macedonia, Box 14, 91000 Skopje, Former Yugoslave Republic of Macedonia		
W2	North Jersey DX Association, Box 599, Morris Plains, NJ 07950	3A	Association des Radio-Amateurs de Monaco, Box 2, MC-98001 Monaco Cedex, Monaco		
W3	Pennsylvania DX Association, POB 100, York Haven, PA 17370-0100	3B	Mauritius Amateur Radio Society, Box 467, Port Louis, Mauritius		
K4,N4,W4	Mecklenburg Amateur Radio Society, Box DX, Charlotte, NC 28220	3DA	Radio Society of Swaziland, Box 3744, Manzini, Swaziland		
AA-AK4,KA-KZ4,NA-NZ4,WA-WZ4:		3D2	Fiji Association of Radio Amateurs, Box 184, Suva, Fiji		
W5	Sterling Park ARC, Call Box 599, Sterling VA 20167	4J-4K	Federation of Radiosport of Azerbaijan, Box 86, Baku 370000, Azerbaijan		
W6	Box 50625, Midland TX 79710	4P-4S	Radio Society of Sri Lanka, Box 907, Colombo, Sri Lanka		
W7	Willamette Valley DX Club, Box 555, Portland, OR 97207	4U1ITU	International Amateur Radio Club, Box 6, CH01211 Geneva 20, Switzerland		
W8	Box 182165, Columbus, OH 43218-2165	4X,4Z	IARC QSL Bureau, Box 17600, Tel Aviv 61176, Israel		
W9	Northern Illinois DX Association, Box 519, Elmhurst, IL 60126	5B	Cyprus Amateur Radio Society, Box 1267, Limassol, Cyprus		
W0	Box 4798, Overland Park, KS 66204	5N-5O	Nigerian Amateur Radio Society, Box 2873, GPO, Marina, Lagos, Nigeria		
KA2-5,KA7-9	Far East Amateur Radio League, c/o D. Arthur, KA8DA, or J. Arthur, KA8JA, 6920 ESG, PSC, Box 2253, APO, AP 93319-2253	5W	WSARC QSL Bureau, Box 1069, Apla, Western Samoa		
KA6	Radio Club of Okinawa, Box 217, Torii Station, APO AP 96331	5X	Uganda Amateur Radio Society, Box 9094, Kampala, Uganda		
KG4	Guantanamo Amateur Radio Club, Box 73, FPO, AE 09593				
KH2	Marianas Amateur Radio Club, Box 445, Agana, GU 96910				
KH3	Box 73, APO, AP 96558				
KH4	U.S. Naval Air Facility, FPO, AP 96614				
KH6	Box 788, Wahiawa, HI 96786				
KL7	4304 Garfield St, Anchorage, AK 99503				
KP2	Virgin Islands Amateur Radio Club, Box 11360, GPO, Charlotte Amalie, VI 00801				
KP4	Radio Club de Puerto Rico, Box 1061, San Juan, PR 00902				
SWL	c/o M Witkowski, 4206 Nebel St., Stevens Point, WI 54481				



# RADIO AMATEURS OPERATING WITH RECIPROCAL LICENSES

## Foreign

A2/W6KG  
A4/W6KG  
A7/W6KG  
BV/JPIRIW  
CEQ/W6KG  
CEQ/W6QL  
CU/KB4JW  
C6/WA2OWL

DJ4LJ/H18  
DL5VJ/DU1  
DL9V1WE  
DU/KB2GRH  
DU/K4TY  
DU/K25Z  
DU/WB5LBJ

DU/KD6TB  
DU/N6XRU  
DU/N7ET  
DU/N7GCN  
DU/N7GCO  
DU4N7MUX  
DW/K47SFR  
EA/K44WUM  
EA/W5ZY  
EA5/G0NGC  
EA6/G6ZY  
EA7/N5OKR  
F/G2BNI  
F/G0KSW  
F/WUJZ  
FR/W6KG  
FR/W6KG  
FR/W6QL  
FS/FG5EM  
FS/FG5EO  
FS7/FG0VG  
FW/G4DZC  
FY/KD3FK  
FY/N4QDX  
G/KB4IYK

G/KK6DF  
G/KK6EE  
G/N0BZ

GW0/N2ATT  
GO/9V1WE  
HA/JH1ROJ  
HA/K6EID  
HB0/HB9NL  
HB9/CU2BR  
HB9/NIFEY  
HC/W6KG  
HC/K49SNM  
HC/K40SYR  
HC/K40TBS  
HI/N9HBQ

HI/E3LKU  
HK/CE3FQT  
HK/CE3JWE  
HK/HB0DX  
HK/KC4AN  
HK/K0LWJ  
HK/N4HUF  
HK/SM5HV  
HK/W6QL  
HK/WA2ITL  
HK/WA3HOV  
HK/WB0DTP  
HK0/W6KG  
HK5/CP4XA  
HK5/HJ3UZH  
HK5/HJ3WBY  
HK5/HJ6WVA  
HK5/HK3AGA  
HK5/HK3KK  
HK5/HK3MOC  
HK5/HK3NPE  
HK5/HK4LPI  
HK5/HK6BJR  
HK5/HK6OQL  
HK5/HK8COO  
HK5/HK8NZG  
HK5/HK9CCT  
HK5/KB4YGO  
HK5/KC4NEB  
HK5/N6NVK  
HP4/TI2LAK  
HR/W55YUW

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## Foreign

HR/W6QL  
HR2/JA6WFM  
HS0/DL1ZAV

HS0/G4JMB  
HS0/G4UAV

HS0/JA1IZ  
HS0/OE2ASL

HS0/OE2REL  
H13/WF9T  
H44/JA6SJN  
JH1FNS/BV2  
JH1FNS/CE3  
JH1FNS/CE0  
JT/HA7VQ  
JT/OK1XC  
JT/RA6LEV  
JT/RB5LTK  
JT/RB5LUK  
JT/RB3MR  
JT/RA6LEV  
JT/UA3EC  
JT/UL7QC1  
JT1/KB9IBZ  
JW/LB6DC  
JW/LB6EC  
JW/LB6FC  
J6/OE2CHN  
KA1HL/VE3  
OE/SP5IXI  
OH/G4JVG  
OH/K5HGK  
PA/DF4NP  
PA/DL8RH  
PA/1YRYS  
PA/KB1IA  
PA/SM6CPI  
PJ/KB4RPC  
PJ/OH2LVG  
PJ/W6QL  
PY/WA3MJR

PZ/W6KG  
P4/N4XCF  
SM/VK5CQ  
SM/9M2CR  
SM4/YO9FVU  
SV/W6KG  
SV/W6QL  
SV5/KB4PMS  
SV9/SV0HW  
SV0HW/SV9  
SV7/W6KG  
S7/W6QL  
S8/W6KG  
S8/W6QL  
TAW/D8ANI  
TK/D5HA  
TI/H8AJD  
TI/H8MWD  
TI/LU1JMQ  
TI/W6KG  
VE2/CE2JG  
V2/N4WQB  
VE3/JA3PJM  
VE3/OK3CAW  
VE3/S52NN  
VP2/W6KG  
VP2E/AA1M  
VP2E/JH4IFF  
VP2E/KA3DBN  
VP2E/KB2JXG  
VP2E/KB4VHW  
VP2E/KB8WC  
VP2E/KD6WW  
VP2E/KO8O  
VP2E/KT8Y  
VP2E/K8BL  
VP2E/NOLMD  
VP2E/NR1R  
VP2E/N2FBB  
VP2E/N4BWS  
VP2E/W2ORA  
VP2E/W2PAU  
V2/JH1ROJ  
V2/KA2DIV  
V2/OE2CHN  
V51/OZ1LRC  
W2CII/VE3  
XE1/NOBK

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John Bricker, QSL via KB8WC  
Bruce D. Lee, QSL via KD6WW  
Scott Farnham, QSL via KO8O  
Thomas Auth, QSL via KT8Y  
Robert Liddy, QSL via K8BL  
John O. Stewart, QSL via NOLMD  
Reynolds A. Sylvester, Jr., QSL via NR1R  
Robert Reiman, QSL via N2FBB  
Terrell Moore, QSL via N4BWS  
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# RADIO AMATEURS OPERATING WITH RECIPROCAL LICENSES

## Foreign

YL/KAORYS  
YS/WD4IFN  
YV/HI8CVR  
YV/K3UOC  
YV/KD4AHI  
YV/K4MUP  
YV/OA4AUN  
YV/W8PLV  
ZB2/G4HUA  
ZP/W6QL  
ZP9/DL3RO  
ZS/W6KG  
ZS3/W6QL  
Z2/W6QL  
4F/KE6PU  
4S/JA8DOK  
S7/D5UG  
4S/DJ8CV  
4S/DK1ZN  
4S/DK2SC

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E. W. Keither, PMB 77, Effurun, Warri, Bendel, Nigeria  
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Mr. Grogor Fischer, 109 Cane View Avenue, South Ruimveldt  
Gardens G. Georgetown, Guyana  
Mr. John F. Layton, British High Commission, 44 Main Street, Georgetown, Guyana  
Mr. Paul Downey, 73 Section M Campbellville, Georgetown, Guyana

4S/WB7VR  
4X/W6KG  
5A/G3JKI  
5N/DC6GW  
5N/DK9FH  
5N/DK3LQ  
5N/DL5KBK  
5N/DL5NE  
5N/EI6FM

5N/EL2AY  
5N/FC1LIA  
5N/FE6HCL  
5N/G3GJQ  
5N/G3SXX  
5N/G3ZMP  
5N/G4WOB  
5N/G8WTV  
5N/HB9CZ  
5N/HB9KC  
5N/I1CSJ  
5N/IK1FOS  
5N/IK7EJX

5N/JG1FVZ  
5N/KOLXA  
5N/KAOKIA  
5N/KB7ZT  
5N/KC7RD  
5N/LU9EAG  
5N/N4NWN  
5N/OE1YDA  
5N/OE5SYM  
5N/OE5WRL  
5N/OK1AEX  
5N/OK1DJ0  
5N/OK1ZKA  
5N/ON7VD  
5N/PB0ACP  
5N/TU2HS  
5N/TU2NL  
5N/TZ6WC  
5N/VY1AA  
5N/W4LZZ  
5N/W0PBV  
5N/YU3IK  
5N/YU7SC  
5N/4X4FF  
5N/5B4MV  
5N/9G1JH  
5N/9LU9EAG  
6W/5NOERD  
6W/5NOMRD  
6W/F50EK  
6Y/KB4ZBK  
6Y/KC4ADR  
6W/3FAJ  
6Y/OE2CHN  
8R/HI8XAD  
8R/HI9CAM  
8R/W1CDC  
8R/N3BBT  
8R/WA4FYG  
8R1/DL9MEU

8R1/G4AAL  
8R1/KA8AXQ

## Foreign

8R1/KB2LVN  
8R1/PE1MIY  
8R1/PE1NEF  
8R1/PE1QJM  
9M2/GM0DEQ  
9M2/KA1BWF  
9M6/GM0DEQ  
9M6/JH1ROJ  
9N/W6KG  
9N/W6QL  
9Y/J6LAD  
9Y/OE2CHN  
9Y4/JA2EZD  
9Y4/KN4TX

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W1/G4DZC  
W1/LU9DDN  
W1/PU1AII  
W1/PU1AKP  
W1/PU1AKQ  
W1/K2JBM  
W2/CE3CRA  
W2/F2YS  
W2/HI3JTE  
W2/HI3VAR  
W2/HI8CAO  
W2/HK1AHR  
W2/JI1DLC  
W2/VK2DXI  
W2/YU2WX  
W2/4X6MQ  
W3/H4CAP  
W3/SM6NCT  
W4/DJ3YT  
W4/DJ8XU  
W4/EA4DDJ  
W4/HI8RFA  
W4/HK3GZB  
W4/HK3HCJ  
W4/LU4DUZ  
W4/OZ7SM  
W4/TF3KX  
W4/YS1JCR  
W4/6Y5AM  
W4/PY2ZEA  
W4/YS1AF  
W4/4X1AD  
W5/DL2HI  
W5/LU3EHT  
KB7TRF/DU4  
KG6/OE6BVG  
KH6/OE2CHN  
KH6/VK2DXI  
W1/G4DZC  
W6/CX7CB  
W6/G3MHV  
W6/G3NBZ  
W6/JA1WZV  
W6/LU4DMI  
W6/LU6AND  
W6/LU8EDU  
W6/OE2CHN  
W6/OE6BVG  
W6/TG9EM  
W6/TG9JH  
W6/VK2KS  
W6/4X6MQ  
W7/DL1UF  
KH8/OE2CHN  
W8/JR1COO  
KH0/JG1RVN  
KH0/OE6BVG  
VE2AQ5/WG  
VE2IQB/W4  
VE3BMV/W2  
VE3EKH/W5  
VE3SUN/W6  
VE7GDM/WO

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Country	CQ Zone	Prefix	Country	CQ Zone	Prefix	Country	CQ Zone	Prefix
Afghanistan	21	YA	Guyana	9	8R	Paraguay	11	2P
Agalega & St Brandon Is	39	3B6,3B7				Peru	10	OA-OC
Aland Is	5	OH0	Hawaii	31	KH6	Peter I Is	12	3Y
Alaska	1	KL7	Haiti	8	HH	Philippines	27	DU-DZ
Albania	15	ZA	Heard Is	39	VK0	Pitcairn Is	32	VR6
Algeria	33	7T-7Y	Honduras	7	HQ,HR	Poland	15	SN-SR
Amsterdam & St Paul Is	39	FT8Z	Hong Kong	24	VS6,VR2	Portugal	14	CT
Andaman & Nicobar Is	26	VU	Hungary	15	HA,HG	Prince Edward Is (Canada)	5	VE1,VY2
Andorra	14	C3				Prince Edward Is	38	ZS8
Angola	36	D2,D3	Iceland	40	TF	Puerto Rico	8	KP4
Annoebon Is (Palagu)	36	3C0	India	22	VU			
Antarctica	12,13,29,30,32,38,39	CE9/KC4	Indonesia	28	YB-YH	Qatar	21	A7
			Iran	21	EP-EQ			
Aran Is	14	EJ0	Iraq	21	YI	Reunion Is	39	FR
Argentina	13	LO-LW	Ireland	14	EL,EJ	Revilla Gigedo Is	6	XA4-XI4
Armenia	21	EK	Ischia	15	IC	Rodriguez Is	39	3B9
Aruba	9	P4	Isle of Man	14	GD,GT	Romania	20	YO-YR
Ascension Is	36	ZD8	Israel	20	4X,4Z	Rota Is	27	KH0
Auckland & Campbell Is	32	ZL9	Italy	15,33	I	Rotuma	32	3D2
Australia	29,30	VK				Rwanda	36	3D2
Austria	15	OE	Ivory Coast	35	TU	Russia, Asiatic	16-19,23	UA-UH8
Aves Is	8	YV0						0,RA-RZ
Azerbaijan	21	4J,4K	Jamaica	8	6Y	Russia, European	16	UA-U11,3,4,6,RA-RZ
Azores Is	14	CU	Jan Mayen Is	40	JS			
			Japan	25	JA-JS	Saba Is	8	PJ
Bahama Is	8	C6	Jersey	31	KH5	Sabah	28	9M6
Bahrain	21	A9	Johnston Is	31	KH3	Sable Is	5	CY0
Baker & Howland Is	31	KH1	Jordan	20	JY	St Barthelemy	8	FJ
Baleares Is	14	E6A-EH6	Juan de Nova Is	39	FR/J	St Helena Is	36	ZD7
Banaba	31	T33	Juan Fernandez Is	12	CE0	St Martin Is	8	FJ,FS
Bangladesh	22	S2				St Paul Is	5	CY9
Barbados	8	8P	Kaliningrad	15	UA2	St Peter & St Paul Rocks	11	PP0-PY0
Belarus	16	EU-EW	Kazakhstan	17	UL	St Pierre & Miquelon Is	5	FP
Belau	27	KC6	Kenya	37	5Y,5Z	Saipan Is	27	KH0
Belgium	14	ON-OT	Kerguelen Is	37	FTX8	Samoa, American	32	KH8
Belize	7	V3	Kermadec Is	32	ZL7	Samoa, Western	32	6W
Benin	35	TY	Kingman Reef	31	KH5K	San Andres & Providencia Is	7	HK0
Bermuda Is	5	VP9	Kiribati East	31	T32	San Felix Is	12	CE0
Bhutan	22	A5	Kiribati Central	31	T31	San Marino	15	T7
Bolivia	10	CP	Kiribati West	31	T30	Sao Tome & Principe	36	S9
Bosnia & Herzegovina	15	T9,4N4,404,YU4	Kure Is	31	KH7	Sarawak	28	9M8
Botswana	38	A2	Kuwait	21	9K	Sardinia	15	IMO,ISO
Bouvet Is	38	3Y	Kyrgyzstan	17	EX	Saudi Arabia	21	HZ
Brazil	11	PP-PY	Labrador (Canada)	2	VO2	Scotland	14	GM,GS
Brunei	28	V8	Laccadive Is	22	VU7	Senegal	35	6V,6W
Bulgaria	20	LZ	Lampedusa Is	33	IG	Seychelles	39	S7
Burkina-Faso	35	XT	Laos	26	XW	Sicily	15	IT
Burundi	36	9U	Latvia	15	YL,UQ	Sierra Leone	35	9L
			Lebanon	20	OD	Singapore	28	8V
Cambodia	26	XU	Leeward Is			Sint Eustatius	8	SV
Cameroon	36	TU	Anguilla	8	VP2E	Sint Maarten	8	PJ
Canada	1,2,3,4,5	VE,VQ,VY	Antigua, Barbuda	8	V2	Slovak Republic	15	OM
Canary Is	33	E8-EH8	British Virgin Is	8	VP2V	Slovenia	15	S5,YU3
Cape Verde	35	D4	Montserrat	8	VP2M	Solomon Is	28	H4
			St Kitts, Nevis	8	V4	Somalia	37	T5
Capri Is	15	IC	Lesotho	38	7P	South Africa, Rep of	38	ZR-ZU
Cayman Is	8	ZF	Liberia	35	EL	South Georgia Is	13	VP8
Central African Rep	36	TL	Libya	34	SA	South Korea	25	HL
Ceuta & Melilla (Spain)	33	E9-EH9	Liechtenstein	14	H80	South Orkney Is	13	LU,VP8
Chad	36	TT	Lithuania	14	HB0	South Sandwich Is	13	LU,VP8
Chagos	39	VQ9	Luxembourg	14	LX	South Shetland Is	13	HF0,4K1,CE9,LU,VP8
Chatham Is	39	VQ9				Southern Sudan	14	ST0
Chile	12	CA-E	Macao	24	XX9	Sov Mill Order of Malta	14	1A0
China	23,24	BT,BY	Macedonia	15	Z3,4N5,YU5	Spain	14	EA-EH
Christmas Is	29	VK9X	Macquarie Is	30	VK0	Spratly Is	26	IS
Clipperton Is	7	FO	Madagascar	39	5R,5S	Sri Lanka	22	4P,4S
Cocos Is	7	Ti9	Maddalena Is	15	IM	Sudan	34	ST
Cocos (Keeling) Is	29	VK9C	Madeira Is	33	CT3	Surinam	9	PZ
Colombia	9	HJ,HK	Malaysia East	28	9M6,9M8	Svalbard Is	40	JW
Comoros	39	D6	Malaysia West	28	9M2,9M4	Swan Is	7	HR0
Congo	36	TN	Malawi	37	7Q	Swaziland	38	3D0A
Conway Reef	32	3D2	Maldives Is	35	80	Sweden	14	SA-SM
Cook Is	32	ZK1	Malta	15	9H	Switzerland	14	HB
Corsica	15	TK	Malpelo	9	HK0	Syria	20	YK
Costa Rica	7	TE,TI	Mal'vy Vysotskiy Is	16	4J1,R1M			
Cote	15	SV9	Manihiki	32	ZK1	Taiwan	24	BV
Croatia	15	9A,YU2	Mariana Is	27	KH0	Tajikistan	17	EY
Crozet Is	39	FT8W	Marion Is	38	ZS8	Tanzania	37	5H-5I
Cuba	8	CM,C0	Market Reef	15	QJ0	Thailand	26	HS
Cyprus	20	5B,ZC4	Marshall Is	31	V7	Tinian	27	KH0
Czech Republic	15	OK,OL	Martinique	8	FM	Togo	35	5V
			Mauritania	35	5T	Tokelau Is	31	ZK3
Denmark	14	OZ	Mauritius	39	3B8	Tonga Is	32	A3
Desecheo Is	8	KP5	Mayotte	39	FR	Trinidad & Martim Vaz Is	11	PP0-PY0
Djibouti	37	J2	Mellish Reef	30	VK9M	Trinidad & Tobago	9	9Y,9Z
Dodecanese Is	20	SV5	Mexico	6	XA-XI	Tristan da Cunha & Gough Is	38	ZD9
Dominican Republic	8	HI	Micronesia	27	V6	Tromelin Is	38	FR/T
			Midway Is	31	KH4	Tunisia	29	3V
Easter Is	12	CE0	Minami-Tori-Shima	17	JD1	Turkey	20	TA-TC
Ecuador	10	HC,HO	Moldova	16	ER	Turkmenistan	17	EZ
Egypt	34	SU	Monaco	14	3A	Turks & Caicos Is	8	VP5
El Salvador	7	YS	Mongolia	23	JT-JV	Tuvalu Is	31	T2
England	14	G,GX	Morocco	30	CN			
Equatorial Guinea	36	3C	Mount Athos	23	SV/A	Uganda	37	5X
Eritrea	37	E3	Mozambique	37	C8,C9	Ukraine	16	UR-UZ,EM-EQ
Estonia	15	ES	Myanmar	26	XY,XZ	United Arab Emirates	21	A6
Ethiopia	37	ET	Namibia	38	V5	United Nations HQ	5	4U
Europa Is	39	FR/E	Nauru	31	C2	United States of America	1,3,4,5,31	AA-AL,K,N,W
			Navassa Is	8	KP1			
Faroes	14	OY	Nepal	22	9N	Uruguay	17	CV-CX
Falkland Is	13	VP8	Netherlands	14	PA-P1	Uzbekistan	32	UJ-UM
Fernando de Noronha	11	PP0-PY0	Netherlands Antilles (Bonaire, Curacao)	9	PJ2,4,9	Vanuatu	32	YJ
Fiji Is	32	3D2	New Caledonia	32	FK	Vatican	15	HV
Finland	15	OF-OI	Newfoundland (Canada)	5	VO1	Venezuela	9	YV-YY
France	14	F	New Zealand	2	ZL,ZM	Vietnam	26	3W,XV
Franz Josef Land	40	4K2,UA1	Nicaragua	7	YN	Virgin Is	8	KP2
French Guiana	9	FY	Niger	35	SU			
French Polynesia	32	FO	Nigeria	35	5N,5O	Wake Is	31	KH9
			Niue Is	32	ZK2	Wales	14	GW,GC
Gabon	36	TR	Norfolk Is	32	VK9N	Wallis & Futuna Is	32	FW
Galapagos Is	10	HC8,HD8	Northern Ireland	14	GI,GN	Walvis Bay	37	ZS9
Gambia, The	35	CS	Norway	14	LA-LN	Western Sahara	23	5T
Gangria	21	4L	Ogasawara Is	27	JD1	Willis Is	30	VK9W
Germany	14	DA-DL,Y2-Y9	Okinawa (Ryukyu Is)	25	JR6	Windward Is		
Ghana	35	9G	Oman	21	A4	Dominica	8	J7
Gibraltar	14	ZB2				Grenada	8	J3
Glorioso Is	39	FR/G	Pakistan	31	AP-AS	St Lucia	8	J6
Gozo (Malta)	15	9H4	Palmyra Is	21	KH5	St Vincent	8	J8
Graham Land	13	LU,VP8	Panama	7	HO,HP			
Greece	20	SV-SZ	Papua New Guinea	28	P2	Yemen	21,37	70
Greenland	40	OX				Yugoslavia	15	YT,YU,YZ
Guadeloupe	8	FG				Yukon Territory (Canada)	1	VY1
Guam	27	KH2						
Guatemala	8	KG4				Zaire	36	90-9T
Guernsey	7	TG,TD				Zambia	36	91,9J
Guernsey	7	TG,TD				Zanzibar (Tanzania)	37	5H1
Guinea-Bissau	35	4J5				Zimbabwe	38	22
Guinea	35	3X						



# INTERNATIONAL RADIO AMATEUR PREFIXES

The following prefixes are listed in alphabetical order for convenience in identifying the country when DX calls are heard.

AA-AL	United States of America	JY	Jordan	VY1	Yukon Territory (Canada)
AP-AS	Pakistan	J2	Djibouti	V2	Antigua & Barbuda
A2	Botswana	J3	Grenada	V3	Belize
A3	Tonga	J5	Guinea-Bissau	V4	St Kitts & Nevis
A4	Oman	J6	St Lucia	V5	Namibia
A5	Bhutan	J7	Dominica	V6	Micronesia
A6	United Arab Emirates	J8	St Vincent & Dependencies	V7	Marshall Is
A7	Qatar			V8	Brunei
A9	Bahrain				
BV	Taiwan	K	United States of America	W	United States of America
BY,BT	China	KA	U.S. Personnel in Japan	XA-XI	Mexico
CA,CE	Chile	KC4	U.S. Antarctica	XA4-XI4	Reville Is
CE9AA,AM	Chilean Antarctica, Tierra de O'Higgins, Palmer Peninsula, Graham Land	KC6	Western Caroline Is	XT	Burkina Faso
CE9,LU,VP8,HF0,4K1	South Shetland Is	KG4	Guantanamo Bay	XU	Cambodia
CE0	Easter Is	KH1	Baker & Howland Is	XV	Viet Nam
CE0	San Felix Is	KH2	Guam	XW	Laos
CE0Z	Juan Fernandez Is	KH3	Johnston Is	XX9	Macao
CM,CO	Cuba	KH4	Midway Is	XY,XZ	Myanmar
CN	Morocco	KH5	Jarvis & Palmyra Is	YA	Afghanistan
CP	Bolivia	KH5K	Kingman Reef	YB-YH	Indonesia
CT	Portugal	KH6	Hawaii	YI	Iraq
CT3	Madeira Is	KH7	Kure Is	YJ	Vanuatu
CU	Azores Is	KH8	American Samoa	YK	Syria
CV-CX	Uruguay	KH9	Wake Is	YL	Latvia
CY0	St. Paul Is (Canada)	KH0	Mariana Is	YN	Nicaragua
CY0	Sable Is (Canada)	KI	Alaska	YO-YR	Romania
C2	Nauru	KL7	Navassa Is	YS	El Salvador
C3	Andorra	KP2	Virgin Is	YT,YU,YZ	Yugoslavia
C5	The Gambia	KP4	Puerto Rico	YV-YY	Venezuela
C6	Bahamas	KP5	Desecheo Is	Y2-Y9	Aves Is
C6,C9	Mozambique				Germany
DA-DL	Germany	LA-LN	Norway	ZA	Albania
DU-DZ	Philippines	LO-LW	Argentina	ZB2	Gibraltar
D2,D3	Angola	LU	Argentine Antarctica	ZC4	Cyprus (Br. Forces)
D4	Cape Verde	LX	Luxembourg	ZD7	St Helena Is
D6	Comoros	LY	Lithuania	ZD8	Ascension Is
EA-EH	Spain	LZ	Bulgaria	ZD9	Tristan da Cunha & Gough Is
EA6	Balearic Is	N	United States of America	ZF	Cayman Is
EA8-EH8	Canary Is	OA-OC	Peru	ZK1	Cook & Manihiki Is
EA9-EH9	Ceuta & Melilla	OD	Lebanon	ZK2	Niue Is
EI,EJ	Ireland	OE	Austria	ZK3	Tokelau Is
EJ0	Arán Is	OF-OI	Finland	ZL	New Zealand
EK	Armenia	OH0	Åland Is	ZP	Paraguay
EL	Liberia	OJ0	Market Reef	ZR-ZU	Rep of South Africa
EM-E0	Ukraine	OK-OL	Czech Republic	ZS8	Prince Edward & Marion Is
EP-EQ	Iran	OM	Slovak Republic	ZS9	Walvis Bay
ER	Moldova	ON-OT	Belgium	Z2	Zimbabwe
ES	Estonia	OX,OZ	Denmark	Z3	Macedonia
ET	Ethiopia	OY	Faroese		
EU-EW	Belarus	PA-PI	Netherlands	1A0	Sovereign Military Order of Malta
EX	Kyrgyzstan	PJ	Netherlands Antilles	1S	Spratty Is
EY	Tajikistan	PP-PY	Brazil		
EZ	Turkmenistan	PP0-PY0	Fernando de Noronha Is	3A	Monaco
F	France	PP0-PY0	St Peter & St Paul Rocks	3B6	Agalega Is
FG	Guadeloupe	PP0-PY0	Trindade & Martin Vaz Is	3B7	St Brandon
FH	Mayotte	P2	Papua New Guinea	3B8	Mauritius Is
FJ	St Barthelemy	P4	Aruba	3B9	Rodriguez Is
FK	New Caledonia	RA-RZ	Russia	3C	Equatorial Guinea
FM	Martinique	SA-SM	Sweden	3C0	Pagalu Is
FO	French Polynesia, Clipperton Is	SN-SR	Poland	3DA-3DM	Swaziland
FP	St Pierre & Miquelon	ST	Sudan	3DN-3DZ	Fiji Is
FR	Reunion Is	ST0	Southern Sudan	3V	Tunisia
FR/E	Europe Is	SU	Egypt	3W	Laos
FR/G	Glorioso Is	SV-SZ	Greece	3X	Guinea
FR/J	Juan de Nova Is	SV5	Dodecanese Is	3Y	Peter I & Bouvet Is
FR/T	Tromelin Is	SV9	Crete	4J,4K	Philippines
FS	St Martin Is	S2	Bangladesh	4J1,R1M	Azerbaijan
FT8W	Crozet Is	S5	Slovenia	4K1	Malvi Vysotsky Is
FT8X	Kerguelan Is	S6	Singapore	4K2	Russian Antarctica
FT8Y	French Antarctica	S7	Seychelles	4N4	Franz Josef Land
FT8Z	Amsterdam & St Paul Is	S9	Sao Tome & Principe	4L	Bosnia & Herzegovina
FW	Wallis & Futuna Is	S0	Western Sahara	4P,4S	Georgia
FY	French Guiana	TA-TC	Turkey	4U	Sri Lanka
G,GX	England	TD,TG	Guatemala	4X,4Z	Israel
GD	Isle of Man	TF	Iceland		
GI,GN	Northern Ireland	TI,TE	Costa Rica	5A	Libya
GJ,GH	Jersey	TI9	Cocos Is	5B	Cyprus
GS,GM	Scotland	TJ	Cameroon	5H,5I	Tanzania
GP,GU	Bailiwick of Guernsey	TK	Corsica (France)	5H1	Zanzibar
GW,GC	Wales	TL	Central African Republic	5L	Liberia
HA,HG	Hungary	TN	Congo	5N,5O	Nigeria
HB	Switzerland	TR	Gabon	5R,5S	Madagascar
HBO	Liechtenstein	TT	Chad	5T	Mauritania
HD	Ecuador	TU	Ivory Coast	5U	Niger
HD8	Galapagos Is	TY	Benin	5V	Togo
HH	Haiti	TZ	Mali	5W	Western Samoa
HI	Dominican Republic	T3	Tuvalu	5X	Uganda
HJ,HK	Colombia	T5	Kiribati	5Y,5Z	Kenya
HKO	Bajo Nuevo, Malpelo, San Andres, Providencia Is	T6	Somalia	6V,6W	Senegal
HL	South Korea	T7	Alghanistan	6Y	Jamaica
HM	North Korea	TA-UI	Russia	7J-7N	Japan
HO,HP	Panama	VE,VO,VY	Canada	7O	Yemen
HQ,HR	Honduras	VK	Australia	7P	Lesotho
HS	Thailand	VK7	Tasmania	7Q	Malawi
HU	El Salvador	VK9C	Cocos (Keeling) Is	7T-7Y	Algeria
HV	Vatican City	VK9L	Lord Howe Is	7Z	Saudi Arabia
HZ	Saudi Arabia	VK9M	Melish Reef		
H4	Solomon Is	VK9N	Norfolk Is	8J	Japanese Antarctica
I	Italy	VK9W	Willis Is	8P	Barbados
IA	Tuscan Archipelago	VK9X	Christmas Is	8Q	Maldives Is
IC	Capri & Ischia Is	VK0	Heard Is, Australian Antarctica	8R	Guyana
IG	Lampedusa Is	VO1	Newfoundland (Canada)	9A	Croatia
IH	Pantelleria Is	VO2	Labrador (Canada)	9G	Ghana
IM	Maddelena Is	VP2E	Antiqui	9H	Malta
IM0-IS0	Sardinia	VP2M	Montserrat	9I,9J	Gozo
IT	Sicily	VP5	Turks & Caicos Is	9K	Zambia
JA-JS	Japan	VP8	Falkland, S. Georgia, S. Orkney, S. Sandwich, S. Shetland, Graham Land	9L	Kuwait
JD1	Ogasawara Is	VP9	Bermuda Is	9M2,9M4	Sierra Leone
JD1	Minami-Tori-Shima	VR2,VS6	Chagos Archipelago	9M6	West Malaysia
JR6	Okinawa (Ryukyu) Is	VR6	Hong Kong	9M8	Sabah
JT-JV	Mongolia	VU	Pitcairn Is	9N	Sarawak
JW	Swad Is	VU	India	9O-9T	Nepal
JK	Jan Mayen Is	VU	Andaman & Nicobar Is	9U	Burundi
		VU	Laccadive Is	9V	Singapore
				9X	Rwanda
				9Y-9Z	Trinidad & Tobago



# 6 METER BEACONS

This list has been prepared by Harry Schools KA3B and Ray Clark K5ZMS for SMIRK, the Six Meter International Radio Klub. Please send all update information and Klub membership inquiries to K5ZMS.

I=Intermittent beacon. C=Continuous beacon.

FREQ.	CALL	OPERATION	LOCATION	GRID	NOTES
35.810	VK6RO	I	Western Australia		3W,6 el Yagi
41.750	VK6RO	I	Western Australia		8W,6 el Yagi
45.250	Ch. 1	I	New Zealand TV video		
46.250	Ch. 0	I	Australian TV video		
48.250	Ch. E2	I	European/African TV video		
49.750	Ch. RI	I	European/Asian TV video		
50.000	CE3BXX	I	Santiago, Chile		
50.000	GB3BUX	C	Sheffield Univ., Buxton, England	IO93BF	15W, Turnstile
50.005	ZS2SIX	C	Rep. of South Africa	KF25	25W, dipole N/S
50.005	H44HIR		Honaria, Solomon Islands	Q100	
50.007.2	K0GUV	C	Park Rapids, Minnesota, USA	EN26	8W, Halo 35'
50.010	VE7SIX	C	Kaleden, BC, Canada	DN09	130W, Swiss Quad
50.010	JA2IGY	C	Mie (near Nagoya), Japan	PM84	10W, ground plane
50.013	P29BPL	C	Port Moresby, Papua New Guinea	Q130	30W, dipole
50.015	SZ2DH	I	Athens, Greece	KM18MM	10W, 5 el yagi
50.015	PJ4B	C	Bonaire, Netherlands Antilles		
50.017	JE6ZIH	C	Miyazaki, Japan	PM51	10W, 2X/Squalo
50.018	ZS3VHF	C	Rep. of South Africa	JG87	50W, ground plane
50.020	GB3SIX	C	Anglesey, Wales	1073TJ	25W, 3 el Yagi
50.020	CX1CCC	C	Uruguay	GF15	5W, ground plane
50.025	6Y5RC	C	Kingston, Jamaica	FK17MX	40W, 3 el Yagi
50.026.5	ZS6PW	I	Rep. of South Africa	KG44	
50.028	JA7ZMA	C	Fukushima, Japan	QM07	10W, 6 el Yagi
50.030	CT0WW	C	Joao Pesdueira, Portugal	IN61GE	40W, dipole
50.032.5	ZD8VHF	C	Ascension Island	II22	50W, JVL vertical
50.033	LU8YYO	C	Argentina		
50.035	ZB2VFH	C	Gibraltar		
50.035	ZS3VHF	C	Rep. of South Africa		60W, vertical
50.039	FY7THF	C	Kourou, French Guyana	GJ35	100W, ground plane
50.040	CX8BE	I	Montevideo, Uruguay	GF15	10W, 4 el Yagi
50.040	SV1SIX		Greece		
50.045	YV5/DL3ZM	C	Caracas, Venezuela	FK60	10W, 6 el Yagi
50.045	OX3VHF	C	Simiutag, Greenland	GP60QQ	20W, ground plane
50.050	GB3NHQ	C	Potters Bar, England	IO91VQ	15W, dipoles
50.050	ZS6DN	C	Irene, Rep. of South Africa	KG44	
50.055	ZS6LN	I	Rep. of South Africa	KG46	
52.056	VK8VF	C	Darwin, Australia	PH57	20W, horizontal
50.057.5	TF2SIX	C	Iceland	HP94CC	50W, vertical
50.060	GB3RMK	C	Rosemarkie, Scotland	IO77UO	20W, dipole
50.060	K4TQR	C	Birmingham, Alabama, USA	EM630M	1W, dipole 60'
50.060	WA8ONQ	C	Middletown, Ohio, USA	EM79TM	2W, Turnstile 60'
50.060	W5VAS	C	Slidell, Louisiana, USA	EM50	0.5W, vertical 310
50.060.2	PY2AA	C	Sao Paulo, Brazil	GG66QK	25W, ground plane
50.061	K1NFE	C	Burlington, Connecticut, USA	FN31MS	15W, Turnstile 70'
50.062	W3VD	C	Laurel, Maryland, USA	FM19NC	10W, vertical 40'
50.062.5	GB3NGI	C	Londonderry, No. Ireland	IO65	18W, dipole
50.063	N4PZ	C	Sarasota, Florida, USA	EL87SF	0.4W, whip 70'
50.063	K6MYC	I	Kona, Hawaii, USA	BK29	10W, M sq. Yagi
60.064	WD7Z	C	Yucca, Arizona, USA	DM24MV	75W, Squalo, 60'
50.065	WA10JB	C	Bowdoin, Maine, USA	FN54	13W, J-pole 15'
50.065	NB30/1	C	Rhode Island, USA	FN41	100W, 5 el Yagi
50.065	W9KFO	C	Eaton, Indiana, USA	EN70HH	1.5W
50.065	KA0CDN	C	Aurora, Colorado, USA	DM79PS	20W, Halo 30'
50.065	WO1JR	C	Aurora, Colorado, USA	DM79PS	20W, Halo 30'
50.065	KL7WE	I	Anchorage, Alaska, USA	BP51	1.5W, 3 el Yagi
50.065.5	GB310J	C	Jersey, Channel Islands	IN89	10W, Halo
50.066	VK6RPR	C	Perth, Australia	OF78	20W, horizontal
50.067	WB8IGY	I	Loveland, Ohio, USA	EM79UG	2W, vertical 100'
50.067	N7DB	I	Boring, Oregon, USA	CN85TM	10W, Halo 30'
50.067		C	Brazzaville, Congo AM Station		
50.068	W7US	C	Tucson, Arizona, USA		
50.068.5	W4RFR	C	Nashville, Tennessee, USA	EM66WA	2W
50.069	W4HHK	C	Collierville, Tennessee, USA	EM55HA	1W, dipole 30'
50.069	K6FV	C	Woodside, California, USA	CM87UL	100W, various 30'
50.070	W0BJ	C	North Platte, Nebraska, USA	DN91NC	5W, Turnstile 12'
50.070	KA4VEY	C	Harvest, Alabama, USA	EM64VV	10W, vertical
50.070	KB4UPI	C	Birmingham, Alabama, USA	EM630M	4W, dipole 25'
50.059	JH0ZPI		Ueda City Nagano, Japan		1W/5W/10W switch op.
50.070	KA4VEY	C	Harvest, Alabama, USA	EM64VV	10w, vertical
50.070	KB4UPI	C	Birmingham, Alabama, USA	EM630M	4W, dipole 25'
50.070	K0TF	C	Des Moines, Iowa, USA	EN31KC	3W, inverted V



# 6 METER BEACONS

FREQ.	CALL	OPERATION	LOCATION	GRID	NOTES
50.070	N4LTA	C	Spartanburg, S. Carolina, USA	EM94AX	10W, Halo 50'
50.070	WA7ECY	C	Troutdale, Oregon, USA	CN85SM	10W, Squalo 30'
50.070	WB0CGH	C	Lewisville, Texas, USA	EM13MC	1.5W, Halo 180'
50.070	WB4GJG	I	Danville, Virginia, USA	FM06HM	1W, Ringo 70'
50.071	W0VD	C	Joplin, Missouri, USA	EM27VD	12W, dipole 20'
50.072	WA2YTM	C	Canadaigua, New York, USA	FN121T	15W, Turnstile
50.072	KW2T	C	Palmyra, New York, USA	FN13	0.25W, Squalo 30'
50.074	WB4DSH	C	Oklahoma City, Oklahoma, USA	EM15FL	30W, Halo 40'
50.075	K7IHZ	I	Mesa, Arizona, USA	DM43BM	20W, Squalo
50.075	PY2AMI	C	Americana, Brazil	GG67IF	10W, ground plane
50.075	NL7XM/Z	C	Staten Island, New York, USA	FNZ0WN	10W, vertical
50.075	KP4EKG	I	Bayamon, Puerto Rico, USA	FK68	10W, vertical 35'
50.075	VS6SIX	C	Hong Kong	OL72	30W, ground plane
50.077	N0LL	C	Smith Center, Kansas, USA	EM09OS	21W, 2 Halos 30'
50.077	N5JM	I	New Orleans, Louisiana, USA	EL49XW	3W, vertical 50'
50.077.5	TI2NA	C	San Jose, Costa Rica	EK70	20W, dipole
50.079	W6SKC/7	C	Nogales, Arizona, USA	DM41ML	5-80W, horizontal 15'
50.080	KH6JJK	I	Honolulu, Hawaii, USA	BI11CI	5W, 3 el Yagi
50.080	WB400J	C	Tampa, Florida, USA	EL87SU	10W, vertical 25'
50.080	W1AW	I	ARRL, Newington, CT, USA	FN31PQ	50W, 6 el Yagi 60'
50.082	HC8SIX	C	Galapagos Islands	EI59	4W, vertical
50.085	9H1SIX	C	Malta	JM75FV	25W, 5 el Yagi
50.086	LU1MA	C	Mendoza, Argentina	FF57	10W, 2 el Quad
50.086	K7NV	I	Pahrump, Nevada, USA	DM16	
50.086	VE2STL	C	Val Belair, Quebec, Canada	FN46	1.5W, dipole
50.086	VP2MO	I	Plymouth, Montserrat	FK86	10W, 6 el Yagi 50'
50.090	KJ6BZ	C	Jonnston Island	AK56	10W, 6 el Yagi
50.092	W5GTP	I	New Iberia, Louisiana	EM40CA	30W, 3 el Yagi 30'
50.100	HC2FG	C	Guayaquil, Ecuador	F107	8W, J-pole
50.100	VP5D	C	Turks & Caicos Islands	FL31	6W, AR6 Ringo 60'
50.100	KG6DX	I	Latte Heights, Guam	QK23	40W, 3 el Yagi
50.110	JA2IGY	C	Mie (near Nagoya), Japan	PM84	10W, ground plane
50.110	A61XL	I	United Arab Emirates	LL74	50W, 6 el Yagi
50.120	4S7EA	I	Sri Lanka	MJ97	50W, 6 el Yagi
50.321	ZS5SIX	C	Pietermaritzburg, RSA	KG50	10W, Halo
50.490	JG1ZGW	C	Tokyo, Japan	PM95	10W, dipole
50.500	5B4CY	C	Zyghi, Cyprus	KM64HT	15W, ground plane
50.740	Ch. 1 Audio	I	Auckland, New Zealand	WBFM	
50.750	Ch. 1 Audio	I	Kaukapunake, New Zealand	WBFM	
50.760	Ch. 1 Audio	I	Waukapunake, New Zealand	WBFM	
50.904	ZS1STB	C	Republic of South Africa	KF05	25W, ground plane
51.020	ZL1UHF	C	Auckland, New Zealand	RF73	25W, dipole
51.030	ZL2MHB	C	Napier, New Zealand	RF80	10W, vertical
51.225	ZL2VHTC	C	Inglewood, New Zealand	RF70	30W
51.670	Ch. 0 Audio	I	Brisbane, Qld, Australia	FM	
51.740	Ch. 0 Audio	I	Wagga, NSW, Australia	FM	
51.760	Ch. 0 Audio	I	Melbourne, Vic, Australia	FM	
51.910	Ch. 0 Audio	I	Brisbane, Qld, Australia	FM	
52.100	ZK2SIX	C	Niue	AH50	
52.200	VK8VF	C	Darwin, Australia	PH57	20W, horizontal
52.250	ZL2VHM	C	Manawatu, New Zealand	RE79	8W
52.310	ZL3MHF	C	Christchurch, New Zealand	RE66	50W, vertical
52.320	VK6RTT	C	Wickham, Australia	OG89	25W, J-pole
52.325	VK2RHV	C	Newcastle, Australia	QF57	20W, horizontal
52.330	VK3RGG	C	Geelong, Australia	QF21	10W, horizontal
52.345	VK4ABP	C	Longreach, Australia	QG26	10W, vertical
52.370	VK7RST	C	Hobart, Australia	QE37	20W, horizontal
52.420	VK2RSY	C	Sydney, Australia	QF56	25W, Turnstile
52.425	VK2RGB	C	Gunnedah, Australia	QF59	5W, horizontal
52.440	VK4RTL	C	Townsville, Australia	QH30	10W, 1/4 vertical
52.450	VK5VF	C	Adelaide, Australia	PF95	30W, Turnstile
52.460	VK6RPH	C	Perth, Australia	OF78	20W, horizontal
52.465	VK6RTW	C	Albany, Australia	OF84	10W, horizontal
52.470	VK7RNT	C	Launceston, Australia	QE38	10W, horizontal
52.485	VK8RAS	C	Alice Springs, Australia	PG66	25W, horizontal
52.490	ZL2SIX	C	Blenheim, New Zealand	RE68	10W, vertical
52.510	ZL2MHF	C	Upper Hut, New Zealand	RE78	4W, vertical



# INTERNATIONAL POSTAL RATES

These are the postal rates in effect at the time of this issue.

	United States & Possessions	Canada	Mexico	All Other Countries
First Class Air Postcard (QSL)	\$0.19	\$0.40	\$0.35	\$0.50
Surface Postcard (QSL) (1 Oz.)				\$0.50
First Class Air Letter (1 Oz.)	\$0.32	\$0.52	\$0.46	\$1.00
Additional Ounces	\$0.23	\$0.23**	\$0.40***	
Surface Letter (1 Oz.)				\$0.80*
Aerogramme				\$0.50

\*Over 1 up to 2 oz. \$0.95; over 2 up to 3 oz. \$1.20, Over 3 up to 4 oz. \$1.45

\*\*Over 1 up to 2 oz. \$0.72; over 2 up to 3 oz. \$0.95; over 3 up to 4 oz. \$1.14

\*\*\*Over 1 up to 1½ oz. \$0.66; over 1½ up to 2 oz. \$0.86; over 2 up to 3 oz. \$1.26; over 3 up to 4 oz. \$1.66

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## THIRD-PARTY TRAFFIC

The U.S. Federal Communications Commission defines third-party traffic [Part 97.3 (a) (38)] as: "a message from the control operator (first party) of an amateur station to another amateur station control operator (second party) on behalf of another person (third party)." U.S. amateurs are only permitted to handle such third-party traffic with countries having third-party agreements with the United States.

The following is a current list of these countries:

V2	Antigua & Barbuda	YS	El Salvador	YN	Nicaragua
LU	Argentina	9G	Ghana	HP	Panama
VK	Australia	J3	Grenada	ZP	Paraguay
V3	Belize	TG	Guatemala	OA	Peru
CP	Bolivia	8R	Guyana	DU	Philippines
PP-PY	Brazil	HH	Haiti	VR6	Pitcairn Is.
VE,VO,VY	Canada	HR	Honduras	V4	St. Kitts, Nevis
CE	Chile	4X,4Z	Israel	J6	St. Lucia
HK	Colombia	4U1ITU	ITU, Geneva	J8	St. Vincent
D6	Comoros	4U1VIC	ITU, Vienna	9L	Sierra Leone
TI	Costa Rica	6Y	Jamaica	3D6	Swaziland
CM,CO	Cuba	JY	Jordan	C5	The Gambia
J7	Dominica	EL	Liberia	9Y	Trinidad & Tobago
HI	Dominican Republic	XE	Mexico	CX	Uruguay
HC	Ecuador	V6	Micronesia	YV	Venezuela

## RECIPROCAL OPERATING AGREEMENTS

The United States has negotiated reciprocal operating agreements with many other countries. Amateurs may operate within the territory of these countries according to the terms of the agreement after first obtaining a permit from the host country. The sole exception is Canada: amateurs with valid U.S. or Canadian licenses may operate within the other country's territory without obtaining a permit. They must, of course, abide by all the terms of the reciprocal operating agreement.

The following is a current list of countries having reciprocal operating agreements with the United States:

V2	Antigua & Barbuda	OX	Greenland	YN	Nicaragua
LU	Argentina	J3	Grenada	LA	Norway
VK	Australia	TG	Guatemala	HP	Panama
OE	Austria	8R	Guyana	P2	Papua New Guinea
C6	Bahamas	HH	Haiti	ZP	Paraguay
8P	Barbados	HR	Honduras	OA	Peru
ON	Belgium	VS6	Hong Kong	DU	Philippines
V3	Belize	TF	Iceland	CT	Portugal
CP	Bolivia	VU	India	J6	St. Lucia
A2	Botswana	YB-YH	Indonesia	J8	St. Vincent
PP-PY	Brazil	EI	Ireland	S7	Seychelles
VE,VO,VY	Canada	4X,4Z	Israel	9L	Sierra Leone
CE	Chile	I	Italy	H4	Solomon Is.
HK	Colombia	6Y	Jamaica	ZR,ZS	Rep. of South Africa
TI	Costa Rica	JA-JS	Japan	EA-EH	Spain
5B	Cyprus	6Y	Jordan	PZ	Surinam
OZ	Denmark	T3	Kiribati	SJ-SM	Sweden
J7	Dominica	9K	Kuwait	HB	Switzerland
HI	Dominican Republic	EL	Liberia	HS	Thailand
HC	Ecuador	LX	Luxembourg	9Y	Trinidad & Tobago
YS	El Salvador	V6	Micronesia	T2	Tuvalu
3D2	Fiji	XE	Mexico	G	United Kingdom
OH	Finland	3A	Monaco	CX	Uruguay
F	France & Territories	PA-PI	Netherlands	YV	Venezuela
DA-DR	Germany	PJ	Netherlands Antilles	YU	Yugoslavia
SV	Greece	ZL	New Zealand		



# TELEGRAPH CODES

Continental Code	Morse Code
Used in ham radio	Used on land lines in United States and Canada
<p>There are no space letters in the Continental Code</p> <p>A ·- B -... C -.-. D -..- E ···- F ·-.- G -.-. H ···- I ···- J ·-.- K -.-. L -.-. M -.-. N -.-. O -.-. P -.-. Q -.-. R -.-. S -.-. T -.-. U -.-. V -.-. W -.-. X -.-. Y -.-. Z -.-.</p>	<p>C, O, R, Y, Z, and &amp; are composed of dots and spaces T is a short dash L is a longer dash Zero (0) is usually abbreviated to T</p> <p>A ·- B -... C -.-. D -..- E ···- F ·-.- G -.-. H ···- I ···- J ·-.- K -.-. L -.-. M -.-. N -.-. O -.-. P -.-. Q -.-. R -.-. S -.-. T -.-. U -.-. V -.-. W -.-. X -.-. Y -.-. Z -.-. &amp; -.-.</p>
<p>Figures</p> <p>1 ·-.- 2 ···- 3 ···- 4 ···- 5 ···- 6 ···- 7 ···- 8 ···- 9 ···- 0 -.-.-</p>	<p>Figures</p> <p>1 ·-.- 2 ···- 3 ···- 4 ···- 5 ···- 6 ···- 7 ···- 8 ···- 9 ···- 0 -.-.-</p>
<p>Punctuation</p> <p>(.) ·-.- (.) ·-.- (?) ·-.- (:) ·-.- (:) ·-.- (:) ·-.- (:) ·-.- (!) None at present (!) ·-.- (!) ·-.- (!) ·-.- (!) ·-.- (!) ·-.- (!) ·-.- (!) ·-.-</p>	<p>Punctuation</p> <p>(.) ·-.- (.) ·-.- (?) ·-.- (:) ·-.- (:) ·-.- (:) ·-.- (:) ·-.- (!) ·-.- (!) ·-.- (!) ·-.- (!) ·-.- (!) ·-.- (!) ·-.- (!) ·-.-</p>

## Emergency Signal

In a dire emergency situation  
use **SOS** by code, **MAYDAY** by voice.

# SPECIAL LISTINGS

A **Special Listing** in the *Callbook* is printed in boldface type to ensure your recognition in the crowd and make your listing easier to locate. This service includes special handling to give you just the wording you want. Would you like to include a nickname or a non-controversial slogan? Do you have more than one mailing address, perhaps one in the summer and another in the winter? A *Callbook* Special Listing can provide these services and more for an entire year at nominal cost. The basic Special Listing is 3 lines or fewer. Additional lines are available up to a total of 9 lines. Please note there is a maximum of 44 characters and spaces per line. The publisher reserves the right to refuse any copy not in keeping with the *Callbook's* standards.

Copy deadline is September 15, 1997 for the 1998 editions of the *Callbooks*.  
Item # RC2498

\$15.00 Basic 3-line listing, per year.  
\$5.00 Each additional line (maximum 9 lines)



## Special Listing Order Form

September 15, 1997, is the deadline for this service in the 1998 RADIO AMATEUR CALLBOOK.

Call Letters      Licenses Call      Name

Enclosed is my check or money order.

Charge my: ☐ VISA ☐ MasterCard ☐ American Express

Card # \_\_\_\_\_ Exp. Date \_\_\_\_\_

Signature \_\_\_\_\_

Name \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_

State/Province \_\_\_\_\_ Zip/Postal Code \_\_\_\_\_

Country \_\_\_\_\_

### RADIO AMATEUR CALLBOOK

P.O. Box 2013, Lakewood, New Jersey 08701 USA  
Telephone: (908) 905-2961 Facsimile: (908) 363-0338



# STANDARD TIME THROUGHOUT THE WORLD

The standard time system is based on the theoretical division of the surface of the globe into 24 zones, each of 15° of longitude. The initial zone is the one which has as its central meridian the Greenwich Meridian and with the meridians 7° 30' E. and 7° 30' W. as its eastern and western limits. Time in this zone is called Universal Coordinated Time, or UTC. Places to the east of Greenwich are ahead of UTC, while places to the west are behind UTC. Not all countries follow the International Time Zone System, but will use the time of some principal city as a standard or will have no standard time at all.

Reference - "Standard Time Chart of the World" No. 5192, published by the U.S. Navy Hydrographic Office, Washington D.C.

The theoretical system described is applied, in a strict sense, only in oceanic regions. On land or on groups of islands the system is applied with certain local deviations made necessary by frontiers or to permit an entire island group to have the same time zone. The time used in each country, whether it is the time of the corresponding zone or a modified time, is fixed by law and is called legal time, or more generally, standard time.

Another deviation from this theoretical system is that certain countries, for economic reasons, modify their legal time for part of the year (especially in summer) by advancing it an hour or another fraction of time. Where such deviations are maintained on a year-around basis, the time kept is considered to be standard time.

Country	Standard or local time	
	Hours fast or slow of UTC	Time at 12:00 hrs. UTC
Afghanistan	+ 4½	16 30
Aland Is.	+ 2	14 00
Alaska	+ 9	03 00
Aleutian Is.	- 10	02 00
Albania	+ 1	13 00
Algeria	- 0	12 00
Amsterdam Is.	+ 5	17 00
Andaman Is.	+ 5½	17 30
Andorra	+ 1	13 00
Angola	+ 1	13 00
Anguilla	- 4	08 00
Antigua	- 3	08 00
Argentina	- 3	09 00
Aruba Is.	- 4	08 00
Ascension Is.	- 0	12 00
Auckland Is.	+ 12	24 00
Australia: Western Australia	+ 8	20 00
Northern Territory, S. Australia, New South Wales, Queensland, and Victoria	+ 9½	21 30
Austria	+ 1	11 00
Azores Is.	- 5	07 00
Bahamas	+ 5	17 00
Bahrain	+ 3	15 00
Baker Is. (U.S.)	- 11	01 00
Balearic Is.	+ 1	13 00
Bangladesh	+ 6	18 00
Barbados	- 4	08 00
Belgium	+ 1	13 00
Belize	- 6	06 00
Benin	+ 1	13 00
Bermuda Is.	- 4	08 00
Bhutan	+ 6½	18 30
Bolivia	- 4	08 00
Bonaire	- 4	08 00
Borneo (Indonesia)	+ 8	20 00
Bosnia & Herzegovina	+ 1	13 00
Botswana	+ 2	14 00
Brazil: East of 52° 30' W. (approx.)	- 3	09 00
Amazonas, Matto Grosso, Acre Territory	- 4	08 00
British Isles	- 0	12 00
Brunei	+ 8	20 00
Bulgaria	+ 3	15 00
Burkina Faso	- 0	12 00
Burundi	+ 2	14 00
Caicos Is.	- 4	08 00
Cambodia	+ 7	19 00
Cameroon	+ 1	13 00
Campbell Is.	+ 12	24 00
Canada: Belle Isle, Labrador, Newfoundland	- 3½	08 30
Anticosti Is., Cape Breton Is., Magdalen Is., New Brunswick, Nova Scotia, Prince Edward Is., Quebec (E of 68° W.), and Sable Is. Melville Peninsula (east), Ontario (E of 90° W.), Quebec (W of 68°), and Southampton Is.	- 5	07 00
Manitoba, Ontario (W of 90° W), Melville Peninsula (west), and N.W. Territories (east)	- 6	06 00
Alberta, Saskatchewan, and N.W. Territories (middle)	- 7	05 00
British Columbia and N.W. Territories (west)	- 8	04 00
Yukon	- 8	04 00
Arctic Is. (No definite standard time used.)	- 0	12 00
Canary Is.	- 1	11 00
Cape Verde	+ 9	21 00
Caroline Is.: Palau	+ 11	23 00
Truk	+ 11	23 00
Ponape	+ 11	23 00
Cayman Is.	+ 5	17 00
Celebes Is. (Indonesia)	+ 8	20 00
Central African Republic	+ 1	13 00
Chad	+ 1	13 00
Chagos Is.	+ 5	17 00
Chatham Is.	+ 12½	24 45
Chile	- 4	08 00
China	- 8	20 00
Christmas Is.	+ 7	19 00
C.I.S.: Karelo-Finnish, Belarus, Ukraine, Moldova, and European Russia	+ 3	15 00
Armenia and Azerbaijan	+ 4	16 00
Kazakh, Uzbek, Turkmenistan, and Tajikistan	+ 5	17 00
Kyrgyzstan & West Siberian region approx. 82° 30' to 97° 30' W.	+ 6	18 00
Buryat, East Siberian region approx. 112° 30' to 127° 30' W.	+ 8	20 00
Kuril Is., Sakhalin Is. approx. 142° 30' to 158° 30' W.	+ 10	22 00
approx. 157° 30' to 162° 30' W.	+ 11	23 00
approx. 172° 30' W to coast	+ 13	01 00
Clipperton Is.	- 7	05 00
Cocos Is.	- 8	06 00
Cocos (Keeling) Is.	- 6½	18 30
Colombia	- 5	07 00
Comoros	+ 3	15 00
Congo	+ 1	13 00
Cook Is.	- 10½	01 30
Corsica	+ 1	13 00
Costa Rica	- 6	06 00
Crete	- 2	14 00
Croatia	+ 1	13 00
Crozet Is.	+ 3	15 00
Cuba	- 5	07 00
Curacao	- 4	08 00
Cyprus	+ 2	14 00
Czech Republic	+ 1	13 00
Denmark	+ 1	13 00
Diego Garcia	+ 5	17 00
Djibouti	+ 3	15 00
Dominica	- 4	08 00
Dominican Republic	- 4	08 00
Easter Is.	- 7	05 00
Ecuador	- 5	07 00
Egypt	+ 2	14 00
El Salvador	- 6	06 00

Country	Standard or local time	
	Hours fast or slow of UTC	Time at 12:00 hrs. UTC
Enderbury Is. (Kiribati)	- 11	01 00
Equatorial Guinea	+ 1	13 00
Estonia	+ 3	15 00
Ethiopia	+ 3	15 00
Falkland Is.	- 4	08 00
Fanning Is.	- 10	02 00
Faroes	- 0	12 00
Fernando de Noronha Is.	- 2	10 00
Fiji Is.	+ 12	24 00
Finland	+ 2	14 00
France	+ 1	13 00
French Guiana	- 3	09 00
French Polynesia	- 10	02 00
Gabon	+ 1	13 00
Galapagos Is.	- 5	07 00
Gambia, The	- 0	12 00
Georgia	+ 4	16 00
Germany	+ 1	13 00
Ghana	- 0	12 00
Gibraltar	+ 1	13 00
Gilbert Is. (Kiribati)	+ 12	24 00
Gough Is.	- 0	12 00
Greece	+ 2	14 00
Greenland: Scoresbysund Area	- 6	10 00
Central Thule Area	- 3	09 00
Grenada	- 4	08 00
Guadeloupe	- 4	08 00
Guam	+ 10	22 00
Guantanamo Bay	- 5	07 00
Guatemala	- 6	08 00
Guinea	- 0	12 00
Guinea-Bissau	- 0	12 00
Guyana	- 3	09 00
Haiti	- 5	07 00
Hawaii	- 10	02 00
Heard Is.	+ 5	17 00
Honduras	- 6	06 00
Hong Kong	+ 8	20 00
Howland Is. (U.S.)	- 11	01 00
Hungary	+ 1	13 00
Iceland	- 0	12 00
India	+ 5½	17 30
Iran	+ 3½	15 30
Iran	+ 3	15 00
Ireland	- 0	12 00
Israel	+ 2	14 00
Italy	+ 1	13 00
Ivory Coast	- 0	12 00
Jamaica	- 5	07 00
Jan Mayen Is.	- 1	11 00
Japan	- 0	12 00
Jarvis Is.	- 10	02 00
Java (Indonesia)	+ 7	19 00
Johnston Is.	- 10	02 00
Jordan	+ 2	14 00
Juan Fernandez Is. (Chile)	- 4	08 00
Kanton Is. (Kiribati)	+ 11	01 00
Kenya	+ 3	15 00
Kerguelen Is.	+ 5	17 00
Kermadec Is.	+ 12	24 00
Korea	+ 9	21 00
Kuwait	+ 3	15 00
Laccadive Is.	+ 5½	17 30
Laos	+ 7	19 00
Latvia	+ 3	15 00
Lebanon	+ 2	14 00
Lesotho	+ 2	14 00
Liberia	- 0	12 00
Libya	- 2	14 00
Liechtenstein	+ 1	13 00
Line Is. (Kiribati)	- 10	02 00
Lithuania	+ 3	15 00
Lord Howe Is.	+ 10½	22 30
Luxembourg	+ 1	13 00
Macao	+ 8	20 00
Macquarie Is.	+ 11	23 00
Madagascar	+ 3	15 00
Madeira Is.	- 0	12 00
Malawi	+ 2	14 00
Malaysia	+ 7½	19 45
Maldives Is.	+ 5	17 00
Mali	- 0	12 00
Malta	+ 1	13 00
Manchuria	+ 8	20 00
Manihiki Is.	+ 11	01 00
Mariana Is.	+ 10	22 00
Marquesas Is.	- 9½	02 30
Marshall Is.	+ 12	24 00
Martim Vaz Is.	- 2	10 00
Martinique Is.	- 0	12 00
Mauritania	- 0	12 00
Mauritius Is.	+ 4	16 00
Mayotte	+ 3	15 00
Mexico: East of the States of Sonora, Sinaloa, and Nayarit	- 0	12 00
Sonora, Sinaloa, Nayarit, and Baja California (south of 28° N)	- 7	05 00
Baja California (north of 28° N)	- 8	04 00
Midway Is.	- 11	01 00
Molucca Is. (Indonesia)	- 0	12 00
Monaco	+ 1	13 00
Mongolia	+ 8	20 00
Montserrat	- 4	08 00
Morocco	- 0	12 00
Mozambique	+ 2	14 00
Myanmar	+ 6½	18 30
Namibia	+ 2	14 00
Nauru	+ 11½	23 30
Navassa Is.	- 5	07 00
Nepal	+ 5½	17 45
Netherlands	+ 1	13 00
New Caledonia	+ 11	23 00
New Zealand	+ 12	24 00

Country	Standard or local time	
	Hours fast or slow of UTC	Time at 12:00 hrs. UTC
Nicaragua	- 6	06 00
Niue	- 5½	17 30
Niger	+ 1	13 00
Nigeria	+ 1	13 00
Niue	- 11	01 00
Norfolk	+ 11½	23 30
Norway	+ 1	13 00
Ogasawara Is.	+ 9	21 00
Oman	+ 4	16 00
Pakistan	+ 5	17 00
Palmyra Is.	- 10	02 00
Panama	- 5	07 00
Papua New Guinea	+ 10	22 00
Paraguay	- 4	08 00
Peru	- 5	17 00
Philippines	+ 8	20 00
Pitcairn Is. (Kiribati)	- 11	01 00
Pitcairn Is.	- 8½	03 30
Poland	+ 1	13 00
Portugal	- 0	12 00
Pribilof Is.	- 11	01 00
Prince Edward & Marion Is.	+ 3	15 00
Providence Is.	- 5	07 00
Puerto Rico	- 4	08 00
Qatar	+ 3	15 00
Reunion Is.	+ 4	16 00
Revilla Gigedo Is.	- 7	05 00
Romania	+ 2	14 00
Rwanda	+ 2	14 00
Ryukyu Is.	+ 9	21 00
Sabah (Malaysia)	+ 8	20 00
St. Helena Is.	- 0	12 00
St. Kitts, Nevis	- 4	08 00
St. Lucia	- 4	08 00
St. Paul Is.	+ 5	17 00
St. Pierre & Miquelon Is.	- 3	09 00
St. Vincent	- 4	08 00
Saipan	+ 10	22 00
Samoa Is.	- 11	01 00
San Andres Is.	- 5	07 00
San Marino	+ 1	13 00
Sao Tome & Principe Is.	- 0	12 00
Sarawak (Malaysia)	+ 8	20 00
Sardinia	+ 1	13 00
Saudi Arabia	- 0	12 00
Senegal	+ 0	12 00
Seychelles Is.	+ 4	16 00
Sicily	+ 1	13 00
Sierra Leone	- 0	12 00
Singapore	+ 8	20 00
Sint Eustatius	- 4	08 00
Sint Maarten	- 4	08 00
Slovakia	+ 1	13 00
Slovenia	+ 1	13 00
Solomon Is.	+ 11	23 00
Somali Republic	+ 3	15 00
South Africa	+ 2	14 00
South Georgia Is., South Sandwich Is., South Shetland Is., South Orkney Is. (No definite standard time used.)	- 2	10 00
South Yemen	+ 3	15 00
Spain	+ 1	13 00
Sri Lanka	+ 5½	17 30
Sudan	+ 2	14 00
Sumatra (Indonesia)	- 7	19 00
Surinam	- 3½	08 30
Svalbard Is.	+ 1	13 00
Swan Is.	- 6	06 00
Swaziland	+ 2	14 00
Sweden	+ 1	13 00
Switzerland	+ 1	13 00
Syria	+ 2	14 00
Taiwan	+ 8	20 00
Tanzania	+ 3	15 00
Tasmania (Australia)	+ 10	22 00
Thailand	+ 7	19 00
Timor Is. (Indonesia)	+ 8	20 00
Togo	- 0	12 00
Tonga	+ 13	01 00
Transkei	+ 2	14 00
Trinidad & Tobago	- 4	08 00
Tristan da Cunha Is.	- 0	12 00
Tromelin Is.	+ 4	16 00
Tunisia	+ 1	13 00
Turkey	+ 3	15 00
Turks Is.	+ 8	20 00
Tuvalu	+ 12	24 00
Uganda	+ 3	15 00
United Arab Emirates	+ 4	16 00
United States of America: Eastern Time	- 5	07 00
Central Time	- 6	06 00
Mountain Time	- 7	05 00
Pacific Time	- 8	04 00
Uruguay	- 3	09 00
Vanuatu	+ 11	23 00
Vatican City	+ 1	13 00
Venezuela	- 4	08 00
Vietnam	+ 7	19 00
Virgin Is.	- 4	08 00
Wake Is.	+ 12	24 00
Wallis & Futuna Is.	+ 12	24 00
Western Sahara	- 0	12 00
West Irian (Indonesia)	+ 9	21 00
West Indies	- 4	08 00
Yemen	+ 3	15 00
Yugoslavia	+ 1	13 00
Zaire	+ 2	14 00
Zambia	+ 2	14 00
Zanzibar (Tanzania)	+ 3	15 00
Zimbabwe	+ 2	14 00



# 10 METER BEACONS

FREQ.	CALL	OPERATION	LOCATION	NOTES
28.175	VE3TEN	C	OTTAWA, ONT.	10W,GP
28.1825	SV3AQR/B	C	AMALIAS, GREECE	4W,GP
28.191	VE6YF		EDMONTON, ALTA.	10W
28.195	IY4M	ROBOT	BOLOGNA, ITALY	20W,5/8 GP
28.2	GB3SX	C	CROWBOROUGH, ENGLAND	8W,DIPOLE
28.201	LU8ED		ARGENTINA	5W
28.202	KE5GY	I	ARLINGTON, TX	5W,VERTICAL
28.2025	ZS5VHF		NATAL, RSA	5W,GP
28.204	DLOIGI	C	GERMANY	100W,VERT DIPOLE
28.205	KA3OEM		MEADVILLE, PA	27W,YAGI/WEST
28.206	KJ4X		PICKENS, SC	2W,VERTICAL
28.2075	N8ZKP	C	BROOKPARK OH	10W,VERT
28.208	WA1IOB	C	MARLBORO, MA	75W,VERT
28.209	NX2O	C	STATEN ISLAND, NY	10W,GP
28.21	3B8MS	C	MAURITIUS	GP
28.21	K4KMZ	I	ELIZABETHTOWN, KY	20W,VERT
28.21	KC4DPC	C	WILMINGTON, NC	4W,DIPOLE
28.212	EA6RCM		PALMA DE MALLORCA	4W,5 EL YAGI NNE
28.2125	ZD9GI	C	GOUGH ISLAND	GP
28.213	PT7BCN	C	CEARA, BRAZIL	
28.216	GB3RAL	C	SLOUGH, ENGLAND	20W,GP
28.2175	WB9VMY	C	CALUMET, OK	2W,DIPOLE
28.218	W8UR	C	MACKINAC ISLAND, MI	0.5W,VERT
28.2185	PT8AA		RIO BRANCO, BRAZIL	5W,GP
28.2195	LU4XS		CAPE HORN, ARGENTINA	
28.22	5B4CY	C	CYPRUS	26W,GP
28.221	PY2GOB		SAN PAULO, BRAZIL	15W,VERT
28.222	W9UXO	C	NR CHICAGO, IL	10W,GP
28.2225	HG2BHA	C	TAPOLCA, HUNGARY	10W,GP
28.225	N6TWW	I	GRASSVALLEY, CA	30W,3 EL YAGI
28.225	KW7Y		EVERETT, WA	4W,OMNI
28.225	PY2AMI	C	SASO PAULO, BRAZIL	5W,DIPOLE
28.2275	EA6AU	C	MALLORCA, BALEARIC IS	10W,5/8 GP
28.23	ZL2MHF	C	MT. CLMIE, NEW ZEALAND	50W,VERT DIPOLE
28.232	W7JPI	C	SONOITA, AZ	5W,3 EL YAGI NE
28.233	KD4EC	C	JUPITER, FL	7W,GP
28.235	VP9BA	C	HAMILTON, BERMUDA	10W,GP
28.237	NV6A	C	SAN DIEGO, CA	0.5W,VERT
28.2375	LA5TEN	C	OSLO, NORWAY	10W,5/8 GP
28.2405	5Z4ERR	C	KIambu, KENYA	
28.244	WA6APQ	C	LONG BEACH, CA	30W,VERT
28.245	A92C		BAHRAIN	DIPOLE NW/SE
28.2455	ZS1CTB	C	CAPETOWN, RSA	20W,1/4 VERT
28.246	N8KHE	C	MACKINAW, MI	0.050W,VERT
28.2475	EA2HB	I	SPAIN	6W,GP
28.248	K1BZ	C	BELFAST, ME	5W,VERT DIPOLE
28.2495	EA3JA		BARCELONA, SPAIN	
28.25	W3SV	C	ELVERSON, PA	10W,VERT
28.25	KOHTF	C	DES MOINES, IA	2W,GP
28.25	Z21ANB	C	BULAWAYO, ZIMBABWE	8W,GP
28.250	WA4SLT	I	HASTINGS, FL	20W,VERT
28.2505	4N3ZHK	C	MT. KUM, YUGOSLAVIA	1W,VERT
28.252	WJ7X	C	SEATTLE, WA	5W,RINGO
28.2525	OH2TEN		FINLAND	
28.255	LUIUG		G RAL PICO, ARGENTINA	5W,GP
28.2575	DK0TEN	C	ARBEITSGEN, GERMANY	40W,GP
28.258	WB4JHS	I	KISSIMMEE, FL	5W,VERT
28.259	WB9FVR	C	PEMBROKE PINES, FL	1W,DIPOLE
28.26	VK5WI	C	ADELAIDE, AUSTRALIA	10W,GP
28.262	VK2RSY	C	SYDNEY,NSW,AUSTRALIA	25W,GP
28.263	N6PEQ	C ?	TUSTIN, CA	2W,HORZ DIPOLE
28.264	VK6RWA	C	PERTH, WA, AUSTRALIA	
28.265	VK4RIK		CAIRNS, AUSTRALIA	
28.266	VK6RTW	C	ALBANY, WA, AUSTRALIA	
28.266	KB4UPI	C	BIRMINGTON, AL	20W,1/4 VERT
28.268	VK8VF		DARWIN, AUSTRALIA	
28.2685	W9KFO	I	EATON, IL	0.750W,VERT
28.27	ZS6PW	C	PRETORIA, RSA	10W,3 EL YAGI
28.27	VK4RTL	C	TOWNSVILLE, QLD, AUSTRALIA	
28.2705	KF4MS	C	ST PETERSBURG, FL	5W
28.2725	9L1FTN	I	FREETOWN, SIERRA LEONE	10W,VERT DIPOLE
28.2745	ZS1LA		STILLBAY, RSA	20W,3 EL YAGI NW
28.275	AL7GQ	C	DENVER, CO	1W,LOOP
28.2755	N6RDX	I	STOCKTON, CA	20W,3 EL YAGI



# 10 METER BEACONS

FREQ.	CALL	OPERATION	LOCATION	NOTES
28.277	DFOAAB	C	KIEL, GERMANY	10W,GP
28.28	LU8EB		ARGENTINA	5W
28.282	VE1MUF	C	FREDRICKTON, NB, CANADA	0.5W,DIPOLE
28.282	VE2HOT	C	BEACONSFIELD, QUE, CANADA	5W,VERT DIPOLE
28.2825	OK0EG	C	HRADEC KRALOVE, CZECH	10W,DIPOLE
28.284	VP8ADE	C	ADELAIDE IS, NR ANTARCTICA	
	8W,V		BEAM TO ENGLAND	
28.285	N2JNT	C	TROY, NY	1W,GP
28.286	KE2DI		NR ROCHESTER, NY	2W,VERT DIPOLE
28.286	KK4M	C	LAS VEGAS, NV	5W,VERT
28.2865	N5AQM	C	ARIZONA	2W,VERTICAL
28.287	W8OMV		NR ASHVILLE, NC	5W,GP
28.287	H44SI	C	SOLOMON IS	15W
28.288	W2NZH	I	MOORESTOWN, NJ	3W GP
28.29	SK 5TEN		SWEDEN	5W,1/2
28.29	VS6TEN	C	HONG KONG	10W,VERT
28.292	ZD8HF		ASCENSION ISLAND	
28.2925	LU2FFV		SAN JORGE, ARGENTINA	5W,GP
28.284	KE0UL		GREELY, CO	5W OMNI VERT
28.295	WC8E	I	CINCINNATI, OHIO	10W,RINGO
28.295	W3VD	C	LAUREL, MD	1.5W,VERT DIPOLE
28.297	WA4DJS	I	FT LAUDERDALE, FL	30W,GP
28.3025	PT7AAC		FORTALEZA, BRAZIL	5W,GP
			-CODE PRACTICE	
28.993	DFOANN	C	NUREMBERG, GERMANY	0.30W,
			1-EL DELTA LOOP	

C=Continuous;

I=Intermittent

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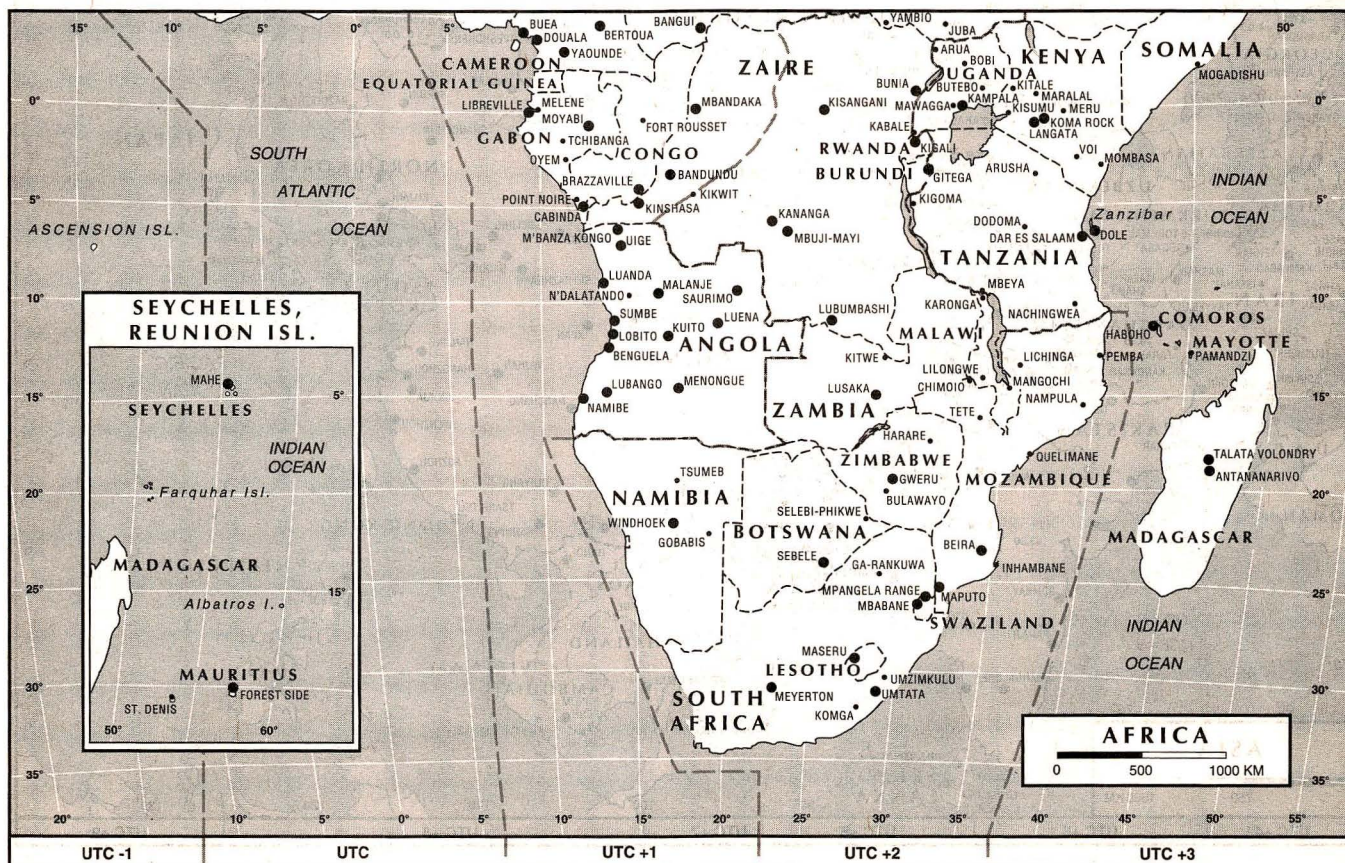
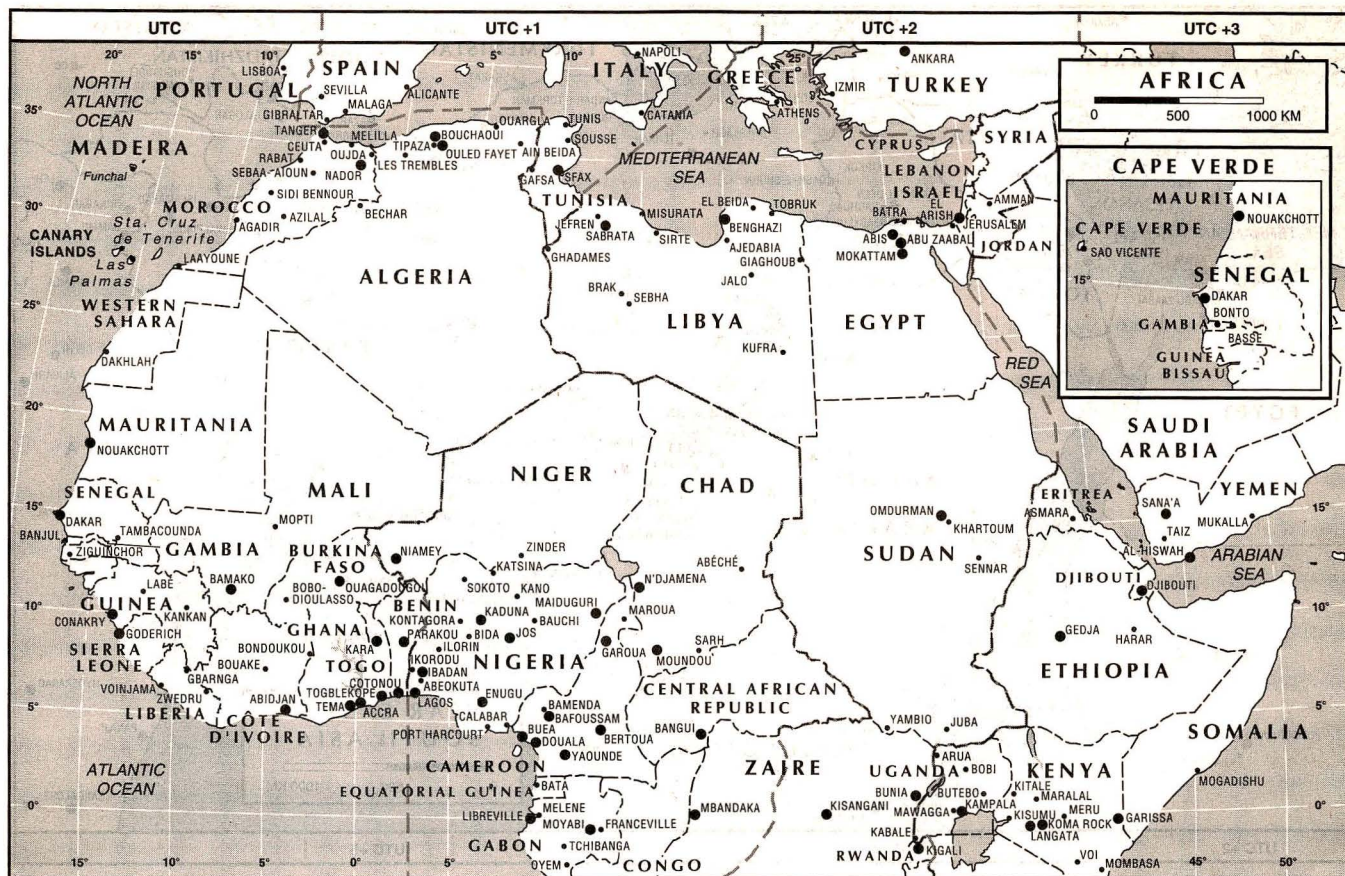
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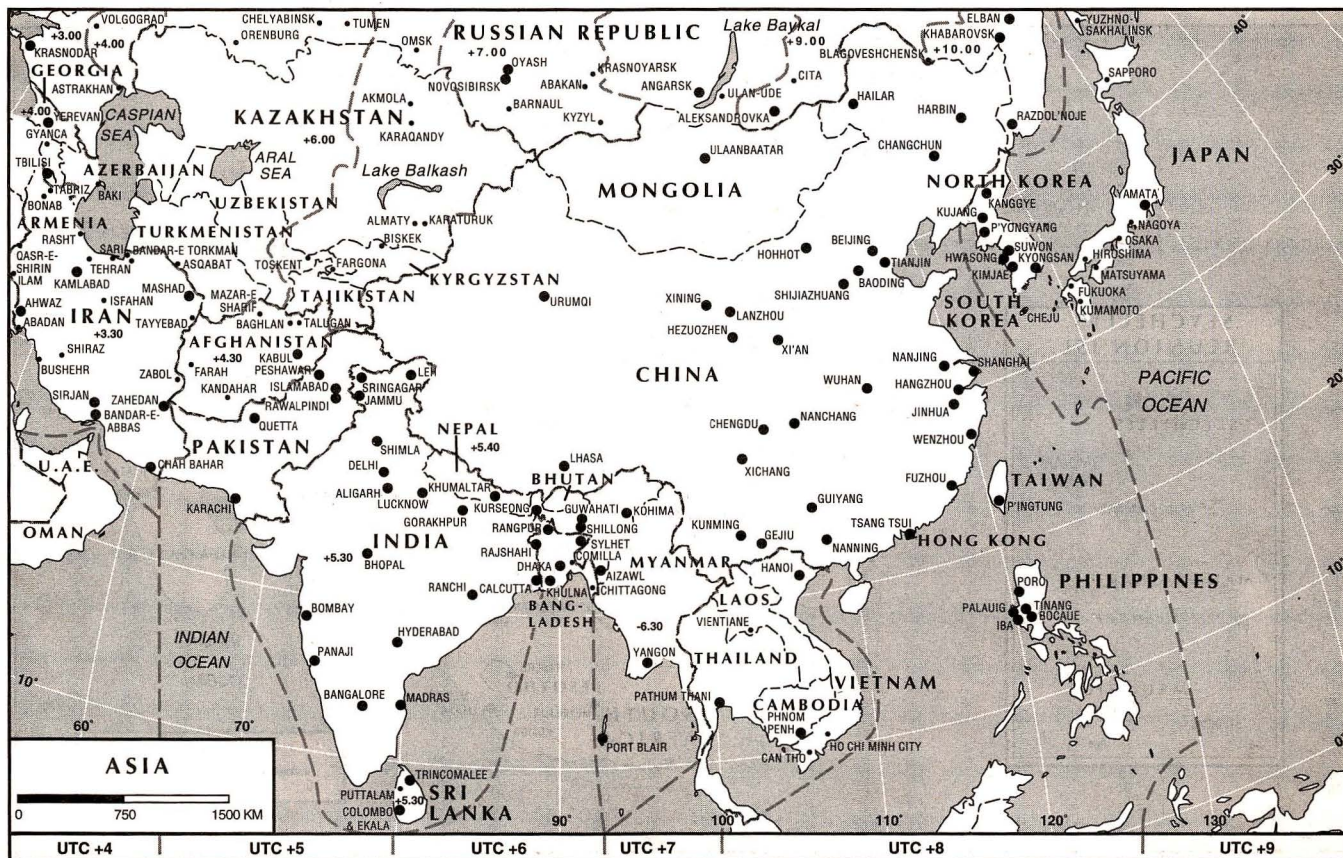
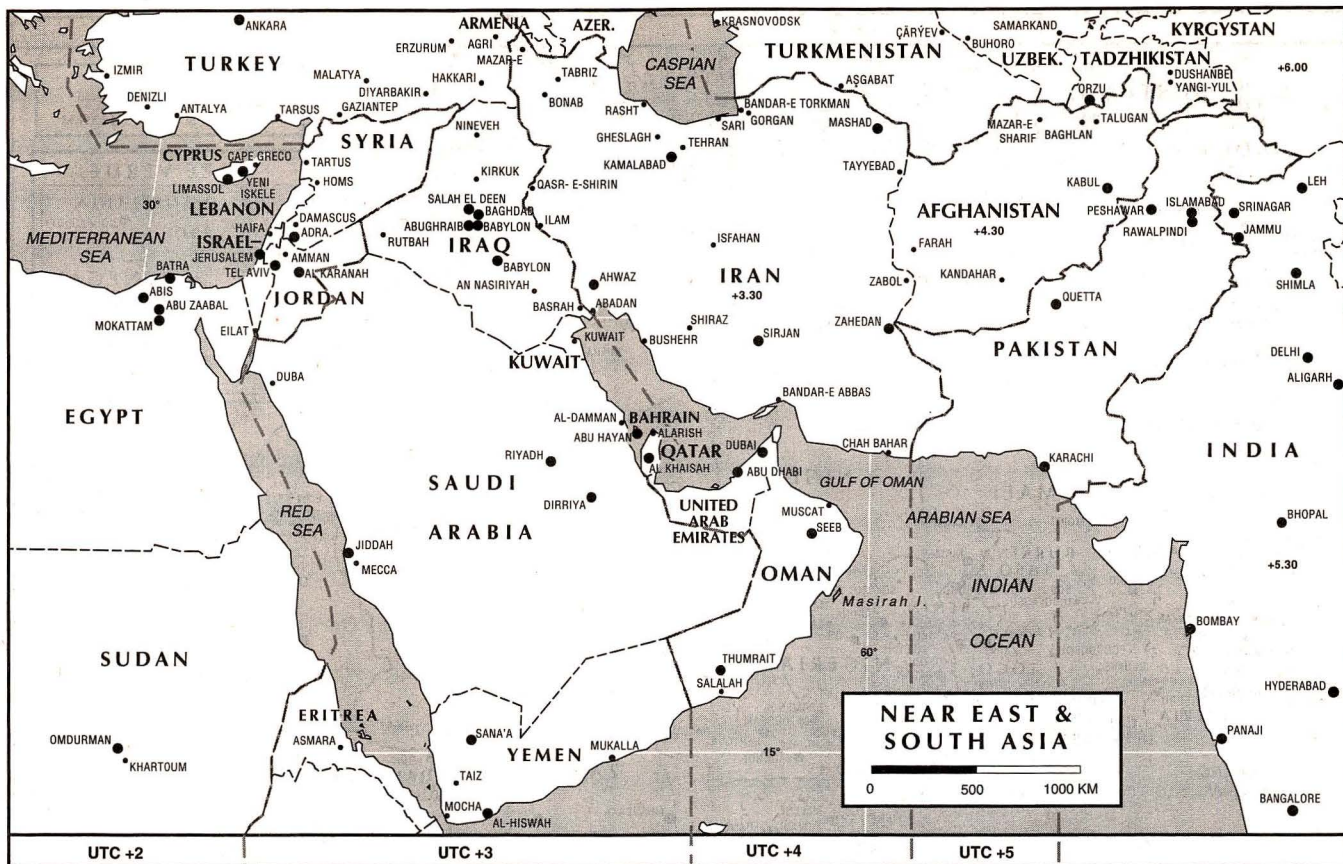




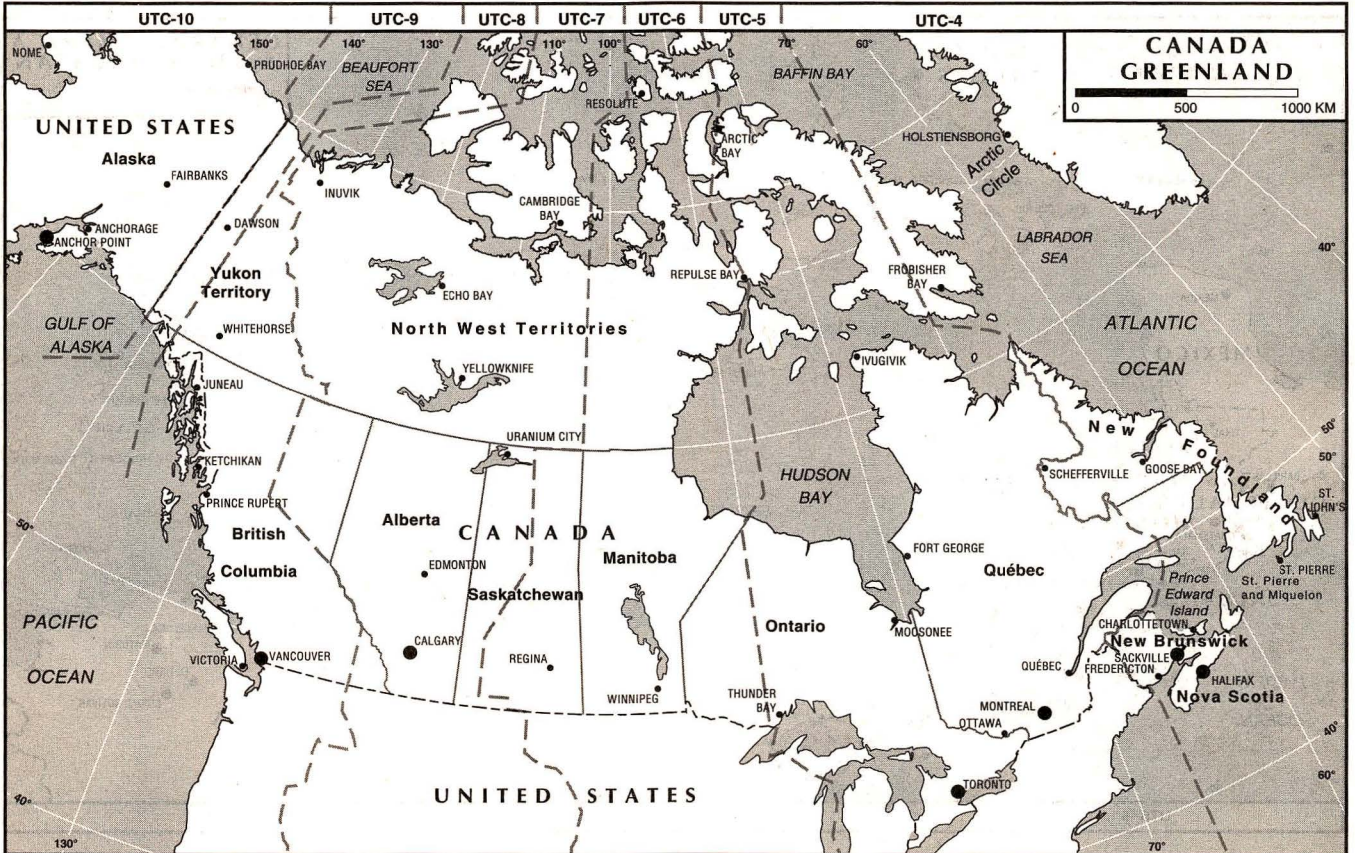
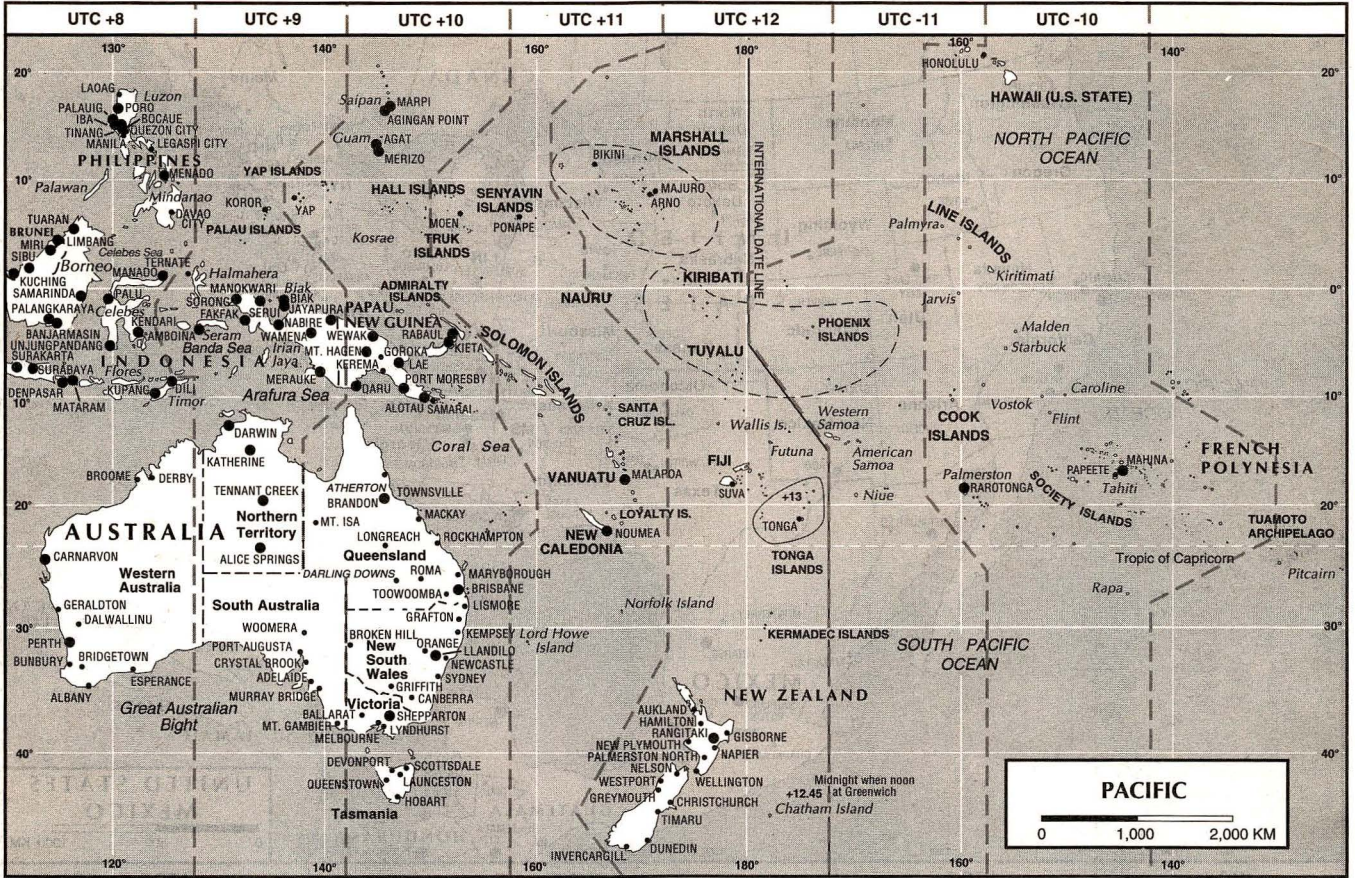




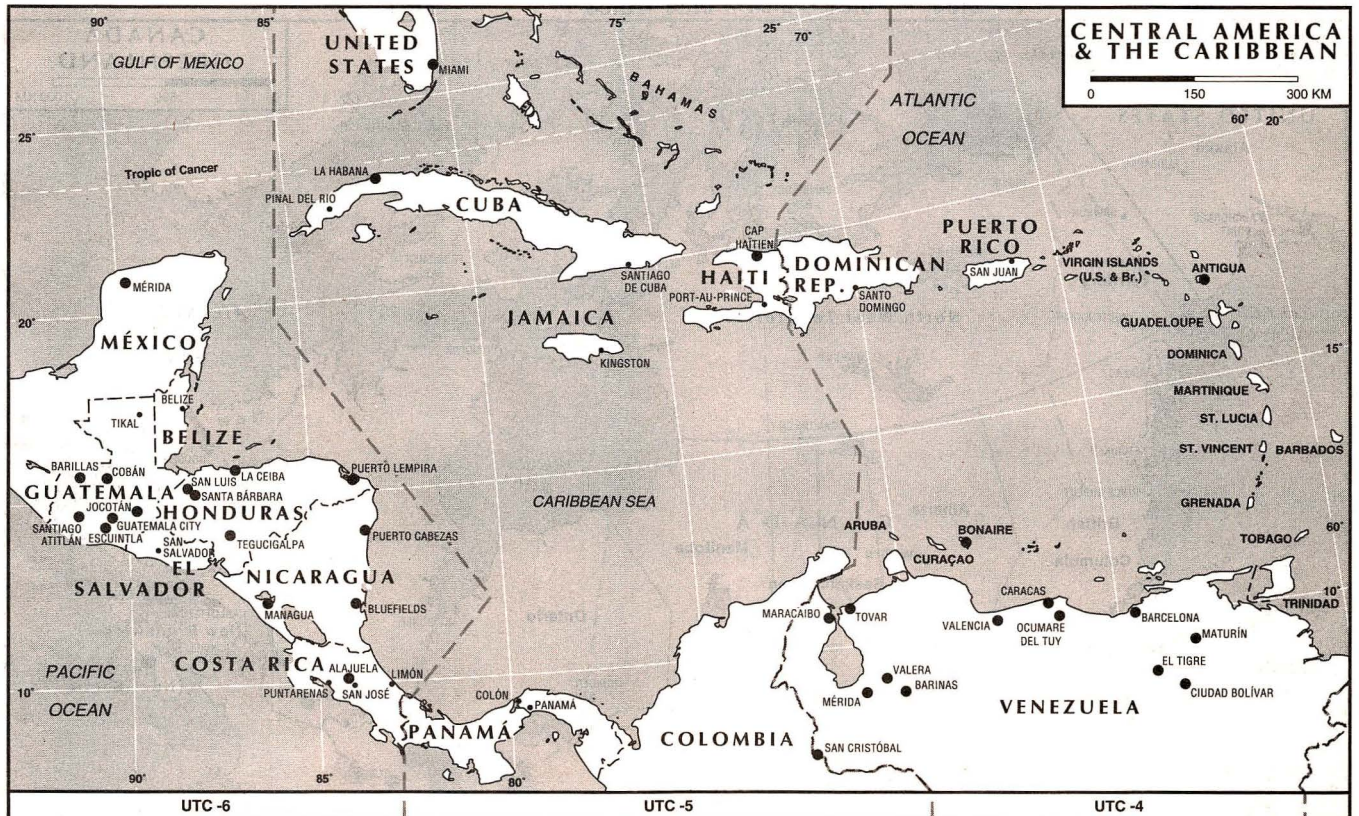


















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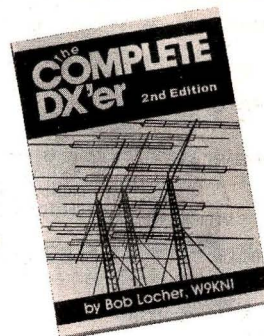
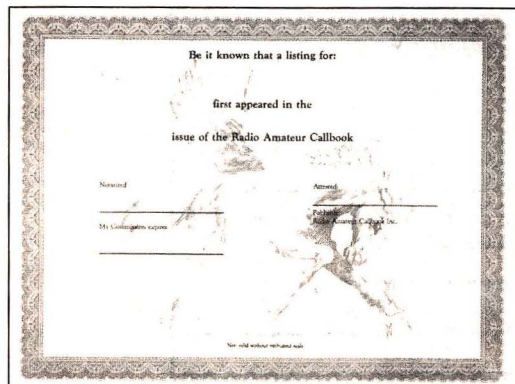
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